

# Western Blotting: Asia Pacific Markets, Developments and Opportunities 2017 - 2020

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## Abstracts

Laboratory Markets Limited has completed a comprehensive market study of the global use of Western Blotting in both clinical and research laboratory settings. This study, which estimates a current 'Western Blotting analysis' global market size of \$810 million and growing to \$1,233 million (CAGR of 8%) by 2020, profiles the use of Western Blotting across more than 15,000 clinical and research organisations, encompassing The Americas, The EMEA and the Asia Pacific and 109 countries. This study investigated growth in the use of Western Blotting in terms of the number of Western Blotting studies reported by end-users, which amounted to 47,000 studies over the period Jan 2013 to August 2016. A key goal in this study was to identify all major Western Blotting laboratories globally, to allow estimates of market sizes in terms of sample throughput/analysis costs. Details of these organisations are provided as part of this report.

### What This Report Offers

Market Sizes (\$Millions): Globally and covering 13 global regions and the top-10 countries

Market Growth (CAGR): Globally and covering 13 global regions and top the-10 countries

Opportunities: Core and developing opportunities in easiest-to-access market sectors

Leading Market Sectors: Identify leading sectors in core and adjacent market areas

Applications: Identify leading, growing and emerging applications and related activities

Reduce Risks and Costs: Reduce risks/costs by accurately profiling core and leading opportunities

Targeted Marketing: Reach desired market groups by reliably profiling end-users market populations

Increase Sales Opportunities: By identifying the most promising end-users in core market areas

Emerging Markets: Identify 'small but rapidly growing' markets by accurate sector and segment profiling

Increase ROI: Through reduced costs and increased sales, by accessing qualified prospects and opportunities

## Western Blotting 2017

These new findings are the result of a detailed three-year market study by Laboratory Markets Limited, covering the period up until August 2016. Data presented on the Western Blotting 2017 Global Study have been compiled from more than 47,000 clinical and research studies carried out by experienced Western Blotting end-users. These end-users are major decision-makers in the selection and purchase of Western Blotting-related products and these 'real world' market data give in-depth information on the current and future use of Western Blotting, in addition to % growth in the numbers of Western Blotting studies, costs, trends and opportunities.

End-user organisations by name are identified in all key sectors and segments of this study. Findings are provided as a PDF report, together with the full Western Blotting 2017 market database created and compiled during this study. The data provided enables Western Blotting suppliers to easily and rapidly identify, analyse and profile areas of the Western Blotting market that offer the greatest opportunities to their own companies.

The extensive market database provided with the report augments the detailed market

findings presented in the PDF report, allowing rapid and easy in-depth analysis across all Western Blotting markets. These new study findings provide market information to suppliers in the Western Blotting field and they assist the identification of new Western Blotting opportunities and give powerful strategic insights into new developments and applications.

Key Features

1. Enables suppliers to profile key areas of Western Blotting markets relating to their own products and services and provides qualified prospects by end-user organisation name
2. Analyses and ranks Western Blotting practices by global region, country, organisation type, methods, applications and others, helping suppliers to identify 'high opportunity' sectors relevant to their current Western Blotting products and future plans in these fields, supporting targeted marketing and reducing costs and risks
3. Provides key information in growing and developing areas of the Western Blotting market, helping suppliers focus resources on Western Blotting growth areas, supporting new sales opportunities in important sectors
4. Helps suppliers to evolve and extend their own strategic visions, future plans and operational activities in the Western Blotting field
5. Enables suppliers to identify, analyse and rank end-user practices and needs and build new customer relationships in leading Western Blotting market sectors.

### Western Blotting 2017 Market Study

This study provides detailed market data on the use of Western Blotting across all global regions (also stratified across EMEA, Americas and Asia Pacific), covering 109 countries. Leading countries in terms of Western Blotting use are also identified, together with top users by country state or county, city and organisation name.

Western Blotting 2017 identified more than 15,500 Western Blotting end-user laboratories globally, which are profiled across key market areas allowing the analysis of all key sectors, developments and opportunities in this field.

Organisation types using Western Blotting are profiled as part of this study including hospitals, research institutes, universities and companies. The departments in which these organisations use these methods are also identified.

The PDF report provides an in-depth analysis of key findings across all major sectors, and identifies key developments and opportunities, growth and end-user costs in this diverse field.

Western Blotting market areas have been profiled applications, detection methods,

diseases, viruses, research and clinical use, other cited laboratory methods, global regions (e.g. North America), Americas, EMEA, Asia Pacific segmentation, countries, end-user organisation types, departments, end-user organisations by name (as a source of qualified prospects) and other areas.

These findings assist suppliers in Western Blotting fields to keep pace with end-users' laboratory activities and needs. They also offer a highly cost-effective source of marketing and sales related information and give new insights into today's evolving clinical and research Western Blotting fields.

### Western Blotting 2017 Market Database

The Western Blotting 2017 global database contains more than 47,000 individual records of Western Blotting end-user organisations, covering studies reported between January 2013 and August 2016. It gives easy access to datasets and provides valuable Western Blotting market insights.

This database is provided as an easy-to-use Excel file which can be rapidly analysed using Pivot Tables. This allows tables and graphs of all Western Blotting market sectors or segments to be easily generated in minutes.

Pivot table analysis allows the analysis of Western Blotting market data across all segments, allowing established Western Blotting methods and applications to be analysed, as well as newer developments and market opportunities.

Data contained in the Western Blotting 2017 database allows side-by-side comparisons of current and developing Western Blotting practices and applications across key sectors of this market.

This database enables easy analysis of Western Blotting practices from the methods and applications Western Blotting end-users are running, to more powerful analyses of relationships in the market, offering market predictions and trend analysis.

The market data presented in Western Blotting 2017 provides a valuable source of qualified sales prospects, based on the current and developing use of Western Blotting across multiple organisations and sectors.

### Key Goals

Identify sufficient numbers of published studies on the use of Western Blotting to enable Laboratory Markets to substantially identify all major Western Blotting laboratories globally, as a basis for calculating market sizes and for accurately profiling sectors, growth and opportunities in this field

Enable suppliers to profile key areas of Western Blotting markets relevant to their own products and services and provide relevant qualified prospects by end-user organisation name

Analyse and rank Western Blotting practices by country, end-user departments, global regions, countries, organisation names, organisation types (hospitals, clinics, medical centres etc), departments, Western Blotting applications and other areas, assisting suppliers to identify sectors relevant to their current products and future plans in these fields, supporting targeted marketing and reducing costs and risks

Provide key information on growing and developing areas of the Western Blotting market, helping suppliers to focus their resources on these areas, supporting new sales opportunities in leading market sectors

Help suppliers to evolve and extend their own strategic visions, future plans and operational activities in Western Blotting

Enable suppliers to identify, analyse and rank end-user practices and needs and build new customer relationships in leading Western Blotting market sectors

Provide in-depth market data that suppliers can analyse alongside their own market information and insights into specific areas of the market, to assist in the identification of new market opportunities and reduce risk in important areas of commercial decision-making

## Western Blotting Market Study

### 1. Global Regions

The use of Western Blotting was investigated by global region and these can be segmented across all other areas of the study including, countries, organisation names, organisation types (e.g. hospitals, research institutes, universities, companies, etc.) and

departments. In all cases, the organisations reporting the use of Western Blotting are identified by name.

## 2. Countries

The use of Western Blotting was investigated by country and these can be segmented across all other areas of the study including, countries, organisation names, organisation types (e.g. hospitals, research institutes, universities, companies, etc.) and departments. In all cases, the organisations reporting the use of Western Blotting are identified by name.

## 3. Organisation Types

The use of Western Blotting was analysed across specific organisation types (e.g. hospitals, research institutes, universities, companies, etc) and these can be segmented across all other areas of the study including, countries, organisation names, organisation types and departments. In all cases, the organisations reporting the use of Western Blotting are identified by name.

## 4. Departments

The use of Western Blotting was analysed across specific departments and these can be segmented across all other areas of the study including, countries, organisation names, organisation types and departments. In all cases, the organisations reporting the use of Western Blotting are identified by name.

## 5. Clinical and Research Use

All Western Blotting studies cited in this report were reviewed to establish the clinical (e.g. involving patients or volunteers) or research use of this technique. These can be segmented across all other areas of the study including, countries, organisation names, organisation types and departments. In all cases, the organisations reporting the use of Western Blotting are identified by name.

## 6. Applications

The use of Western Blotting in terms of applications including Protein expression, Gene upregulation, Cell signaling, Protein levels, Recombinant proteins, Phosphorylation, Protein over-expression, Receptors, Kinases, Gene expression, Increased protein



expression, Proteomics, Caspases, Histones, Biomarker, Apoptosis, cell viability, Cytokines, Gene knock-down, Cell proliferation, Down-regulation, Autophagy, Diagnosis, Infection, Autoantibodies, Morphology, Mitochondrial function, Bacterial, Gene silencing, Transcript levels, Protein identification, Immune response, Stem cells, Drug resistance, Molecular docking, Viral, Mutation, Transgenic, Co-expression, Necrosis, Protein analysis, Cell cycle, Reactive Oxygen Species, Decreased protein expression, Cell count, Gene underexpression, Protein degradation, Decreased expression, Transplantation, Enzymatic activity, Cell adherence, Membrane function, Inflammation markers, Cell growth, Virulence factors, Chemokines, Cloning, Senescence, Cell activation, Mutagenesis, Serotypes, Cellular uptake, Veterinary, Epidemiology, Toxicology, Adhesion proteins, Cluster of differentiation, Cell motility, High abundance proteins, Cell Lysis, Low abundance proteins, Phagocytosis, Protein localisation, Surface antigens, Cell function, Cell markers, expression analysis, Telomerase, Antibiotic resistance, phenotyping, Protein modifications, Gene mutations, Oxidative burst, Tissue expression and Gene regulation. These can be segmented across all other areas of the study including global regions, countries, states or counties, organisation names, organisation types and departments. In all cases, the organisations reporting the use of these specific methods are identified by name.

## 7. Detection

The use of Western Blotting in terms of detection methods including Fluorescence, Colorimetric, Chemiluminescence and Densitometric. These can be segmented across all other areas of the study including global regions, countries, states or counties, organisation names, organisation types and departments. In all cases, the organisations reporting the use of these specific methods are identified by name.

## 8. Diseases

The use of Western Blotting in terms of disease areas associated with its use including Breast Cancer, Liver Cancer, Hypoxia, Gastric Cancer, Squamous Cell Carcinoma, Diabetes Type 2, Prostate cancer, Rectum Cancer, Ovarian cancer, Vascular Disease, Lung Cancer, Small Cell Lung Cancer, Glioma, Leukaemia, stroke, lymphoma, Skin Cancer, Pancreatic Cancer, Osteosarcoma, Alzheimer's Disease, Osteoarthritis, Parkinson Disease, Myocardial Infarction, Renal Cancer, Drug Resistance, Colon Cancer, Cervical Cancer, Asthma, Retinopathy, Liver Disease, Nephropathy, Myopathy, Myeloid Leukemia, Hypertension, Spinal cord injury, Neuroblastoma, Hepatitis, Bladder Cancer, Brain injury, Nasopharyngeal carcinoma, Neuropathic Pain, Glioblastoma, Traumatic brain injury, Pulmonary Fibrosis, Metastases, Multiple Myeloma,

Tuberculosis, Inflammatory Bowel Disease, Heart Failure, Osteoporosis, Infertility, Pneumonia, Retinoblastoma, Kidney Disease, Pancreatitis, Pulmonary Hypertension, Schizophrenia, Malaria, Hyperglycemia, Endometrial Cancer, Thyroid Carcinoma, Endometriosis, Systemic lupus erythematosus, Atrophy, Immunodeficiency, COPD, Thyroid cancer, Epilepsy, Heart Disease, Metabolic Syndrome, Renal Disease, Diarrhea, Macular Degeneration, Esophageal cancer, Temporal lobe epilepsy, Muscular Dystrophy, Glaucoma, Atrial Fibrillation, Cholangiocarcinoma, Neuropathy, Systemic Sclerosis, Urothelial carcinoma, Cataract, Dementia, pulmonary arterial hypertension, Renal failure, Oral Cancer, Telangiectasia, Psoriasis, Prion disease, Periodontal disease, Autoimmune Disease, Brain Damage, Cystic Fibrosis, Arrhythmia, toxoplasma, Nonalcoholic Fatty Liver Disease, Vascular Dementia, Influenza, Toxoplasmosis and Polycystic Ovary Syndrome. These can be segmented across all other areas of the study including global regions, countries, states or counties, organisation names, organisation types and departments. In all cases, the organisations reporting the use of these specific methods are identified by name.

## 9. Viruses

The use of Western Blotting in terms of the study of associated viruses including Hepatitis, HIV, Enterovirus, Influenza, Dengue virus, Porcine reproductive and respiratory syndrome virus, White spot syndrome virus, Rabies virus, Rotavirus, Japanese encephalitis virus, Newcastle disease virus, Murine leukemia virus, Porcine circovirus, Infectious bursal disease virus, Chikungunya virus, Porcine epidemic diarrhea virus, Foot-and-mouth disease virus, Simian virus 40, West Nile virus, Human herpesvirus, Tobacco mosaic virus, Vaccinia virus, Bovine viral diarrhea virus, Rhinovirus, Ovine herpesvirus, Classical swine fever virus, Human respiratory syncytial virus, Rift Valley fever virus, Semliki Forest virus, Equine infectious anemia virus, Fowlpox virus, Infectious spleen and kidney necrosis virus, Potato virus, Cauliflower mosaic virus, Puumala virus, Avian leukosis virus, Bombyx mori bidensovirus, Aquareovirus, Parainfluenza virus, Equine arteritis virus, Rubella virus, Bluetongue virus, Nipah virus, Autographa californica multiple nucleopolyhedrovirus, Mumps virus, Simian immunodeficiency virus, Bombyx mori nucleopolyhedrovirus, Canine distemper virus, Infectious pancreatic necrosis virus, Rabbit hemorrhagic disease virus and Yellow fever virus. These can be segmented across all other areas of the study including global regions, countries, states or counties, organisation names, organisation types and departments. In all cases, the organisations reporting the use of these specific methods are identified by name.

## 10. Other Techniques



The use of Western Blotting in terms of other techniques that were cited in these studies including In-Situ Hybridisation, Immunohistochemistry, MTT assay, Immunofluorescence, Flow cytometry, qPCR, ELISA, TUNEL, Microarray, Immunosorbent Assay, RT PCR, qRT PCR, SDS-PAGE, Mitochondrial membrane potential, luciferase assay, immunostaining, Migration assay, Proliferation assay, Immunocytochemistry, Immunoprecipitation, Confocal analysis, MALDI TOF, Patch-clamp, Wound-healing assay, HPLC, LAMP, Scanning electron microscopy, Immunofluorescence microscopy, ChIP, Glycosylation, Surface Plasmon Resonance, FACS, Affinity chromatography, Viability Assay, indirect immunofluorescence assay, Comet assay, Methylation Specific PCR, Matrigel assay, Nanoparticle study, fluorescence quantitative PCR, Mutagenesis, Cloning, Electrophysiology, MSP, In Situ Hybridization, Thin Layer Chromatography, Densitometry, Exome sequencing, Chromatin immunoprecipitation, Antibody array, DNA sequencing, Dot blotting, RNA-Seq, Griess assay, Cell fractionation, Sanger sequencing, Yeast two-hybrid, Gene knockout, MLPA, Nested PCR, CRISPR, Gene Array, fluorescence spectrophotometry, Colony PCR, MS-PCR, PCR-RFLP, Pyrosequencing, AP PCR, Next-Generation Sequencing, Alanine scanning, Inverse PCR, Photoaffinity labeling, PCR-sequencing, Digital PCR, RACE-PCR, FRET, Taqman PCR, miRNA Array, PCR-restriction fragment length, PCR-DNA sequencing, ARMS PCR, Electroblothing, PCR-LDR, Microfiltration, Fusion PCR, Random Amplified Polymorphic DNA (RAPD), Multiplex Detection, RAPD-PCR, Single cell PCR, RFLP, Taqman Array, AP-PCR, Allele-specific PCR, Cytometric Bead Array, Dual-luciferase activity, Overlap extension PCR, Multilocus Sequence Typing, Saturation-binding assays, Long PCR.

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