

# **Research Antibodies & Reagents Market by Product (Antibodies (Type, Form, Source, Research Area), Reagents), Technology (Western blot, Flow Cytometry, ELISA), Application (Proteomics, Genomics), End User (Pharma, Biotech, CROs) & Region - Global forecast to 2028**

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## **Abstracts**

The global research antibodies and reagents market is projected to reach USD 16.2 billion by 2028 from USD 11.8 billion in 2023, at a CAGR of 6.5% during the forecast period of 2023 to 2028. The growth of this market can be attributed life science companies that are helping university researchers by providing technical and financial assistance to commercialize university research projects. Also, Antibodies play a significant role in biomarker identification and validation as they are used to detect various antigens, enzymes, DNA, and mRNAs using technologies such as ELISA, electrophoresis, and fluorescence assays that are based on conventional immunoassays. Moreover, developing various separation techniques, advanced protein identification, and structure determination technologies has enabled thousands of proteins to be identified from complex mixtures. This has created significant demand for research antibodies for biomarker identification and validation applications.

On the basis of source, the mice segment holds the highest market share during the forecast period.

Based on the source, the research antibodies market has been categorized into rabbits, mice, and others. Mice accounted for the largest share of the global research antibodies market, by source, in 2022. Mice have traditionally been the host of choice to produce monoclonal antibodies and as a second host against primary rabbit antibodies. These

animals offer the advantage of easy production compared to animal use and economic considerations. Such cost-effectiveness of mice as a primary source of antibodies makes this segment the higher share holder.

On the basis of technology, the flow cytometry segment is expected to register the highest CAGR during the forecast period.

On the basis of technology, the research antibodies and reagents market is segmented into western blotting, flow cytometry, ELISA, Immunohistochemistry, Immunofluorescence, Immunoprecipitation, and other technologies. During the forecast period the flow cytometry segment is expected to witness the highest growth. One of the major advantages of flow cytometry technique is its ability to perform simultaneous multi-parameter analysis on single cells within a heterogeneous mixture. It offers a high throughput and the automated quantification of cell features. These factors, along with technological innovations in flow cytometry and its growing applications in cancer research, are driving the growth of this segment.

On the basis of application, the proteomics holds the highest market share during the forecast period.

On the basis of application, the research antibodies and reagents market is segmented into proteomics, drug development and Genomics. In 2022, Proteomics held the largest share of the global research antibodies and reagents market. The increasing importance of proteomic studies in various fields (such as cancer biology, developmental and stem cell biology, and medicine) and the need for the remedial treatment of life-threatening diseases (such as respiratory infections, neurological conditions, and tuberculosis) have led many government agencies to promote proteomics research actively, thus promoting market growth.

On the basis of end user, the pharmaceutical & biotechnology holds the second highest market share during the forecast period.

The research antibodies and reagents market is divided into the pharmaceutical & biotechnology companies, research laboratories and Contract Research Organizations. In 2022 the pharmaceutical & biotechnology companies held the second largest share of the global research antibodies and reagents end-user market as pharmaceutical & biotechnology companies require antibodies for prognostic, predictive, or diagnostic identification and the quantification of biomarkers in drug discovery and development.

By Region, The Asia Pacific region is expected to register the highest CAGR during the forecast period.

During the forecast period (2023 to 2028), the Asia Pacific research antibodies and reagents market is expected to grow at the highest CAGR. Owing to high growth potential, many manufacturers are extending their global manufacturing bases to the APAC. With their low-cost manufacturing advantage, manufacturers consider China and India the most profitable manufacturing and R&D locations. This is contributing to high growth rate in the Asia Pacific region.

Break of primary participants was as mentioned below:

By Respondant – Supply Side–70%, Demand Side–30%

By Designation – Manger–45%, CXOs and Directors–30%, Executives–25%

By Region – North America–30%, Europe–25%, Asia Pacific–30%, Latin America- 10%, Middle East and Africa–5%

Key players in the research antibodies and reagents market

Some prominent players in the global research antibodies and reagents market are Abcam plc (UK), Cell Signaling Technology, Inc. (US), Thermo Fisher Scientific Inc. (US), Merck KGaA (Germany), BD (US), Bio-Rad Laboratories, Inc. (US), F. Hoffmann-La Roche Ltd (Switzerland), Agilent Technologies, Inc. (US), Danaher (US), Lonza (Switzerland), GenScript (China), Revvity (US), SouthernBiotech (US), Illumina, Inc. (US), ImmunoPrecise Antibodies Ltd (US), Fujirebio (Sweden), Analytik Jena GmbH+Co. KG (Germany), Omega Bio-tek, Inc. (US), Dovetail Genomics (US), Atlas Antibodies (Sweden), Rockland Immunochemicals, Inc. (US), Santa Cruz Biotechnology, Inc.(US), Jackson ImmunoResearch Inc. (US), Proteintech Group, Inc. (US), and ICL, Inc. (US).

Research Coverage:

The report analyzes the research antibodies and reagent market and aims at estimating the market size and future growth potential of this market based on various segments such as product, distribution channel, and region. The report also includes a product portfolio matrix of various research antibodies and reagents products available in the

market. The report also provides a competitive analysis of the key players in this market, along with their company profiles, product offerings, and key market strategies.

### Key Benefits of buying the Report

The report will enrich established firms as well as new entrants/smaller firms to gauge the pulse of the market, which in turn would help them, garner a more significant share of the market. Firms purchasing the report could use one or any combination of the below-mentioned strategies to strengthen their position in the market.

This report provides insights into the following pointers:

Analysis of key drivers (Rising funding for life sciences research, Increasing industry-academia collaborations, Growing applications of biomarker identification & validation), restraint (Quality concerns and inadequacy of reproducible results, Ethical concerns for animal welfare in antibody production), opportunities (High-growth potential of emerging economies, Rising demand for personalized medicine and protein therapeutics, Growth in stem cell and neurobiology research, Outsourcing of services to CROs), challenges (Complexities associated with antibody development, Increasing pricing pressure).

**Market Penetration:** Comprehensive information on product portfolios offered by the top players in the global research antibodies and reagent market. The report analyzes this market by product and distribution channel.

**Product Enhancement/Innovation:** Detailed insights on upcoming trends and product launches in the global research antibodies and reagent market.

**Market Development:** Comprehensive information on the lucrative emerging markets by product and distribution channel

**Market Diversification:** Exhaustive information about new products or product enhancements, growing geographies, recent developments, and investments in the global research antibodies and reagent market.

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, product offerings, competitive leadership mapping, and capabilities of leading players in the global research antibodies and reagent market.



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\*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

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13.5 AUTHOR DETAILS

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