

Monoclonal Antibody (mABs) Therapeutics Market by Production Method (In-Vitro, In-Vivo), Sources (Human, Chimeric), Route of Administration (Intravenous, Subcutaneous), Therapy (Inflammatory & Autoimmune, Oncology, Hematology) - Global Forecast to 2029

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Abstracts

The monoclonal antibody therapeutics market is projected to reach USD 497.5 billion by 2029 from an estimated USD 252.6 billion in 2024, at a CAGR of 14.5% during the forecast period.

The driving factors of the monoclonal antibody therapeutics market include increased prevalence of chronic diseases, advancements in biotechnology, and growing demand for targeted therapies. Examples include drugs like Rituxan (rituximab) for lymphoma, Humira (adalimumab) for autoimmune disorders, and Keytruda (pembrolizumab) for cancer immunotherapy, driving market growth through their effectiveness and broad applications.

“The In-Vitro segment accounted for the largest share by production method in 2023.”

Based on production method, the monoclonal antibody therapeutics market is segmented into in-vitro and in-vivo. In 2023, in-vitro segment dominated the monoclonal antibody therapeutics market. Driving factors of the in-vitro production method monoclonal antibody therapeutics market include scalability, cost-effectiveness, reduced batch-to-batch variability, and regulatory compliance, meeting demand for reliable and consistent biopharmaceutical production.

“The human segment accounted for the largest share by source in 2023.”

Based on source, the monoclonal antibody therapeutics market is segmented into human, humanized, chimeric and other sources. In 2023, human source segment dominated market and humanized segment is likely to grow at significant CAGR during the forecast period. The driving factors of the human source monoclonal antibody therapeutics market include reduced immunogenicity, enhanced efficacy, and improved safety profiles compared to non-human sources. Additionally, advancements in humanization techniques and increased understanding of human immune responses contribute to the growth of this market, catering to diverse therapeutic needs.

“The autoimmune & inflammatory disease segment accounted for the largest share by therapy area in 2023.”

The monoclonal antibody therapeutics market is segmented into autoimmune & inflammatory disorders, Oncology, Hematology, ophthalmology and other therapy area. In 2023, autoimmune & inflammatory diseases dominated the monoclonal antibody therapeutics market. Cancer segment is anticipated to grow at significant CAGR during the forecast period of 2024-2029. The high growth cancer monoclonal antibody therapeutics is propelled by increasing incidences of cancer globally, coupled with growing acceptance of targeted therapies. Continuous research and development efforts, along with advancements in biotechnology, contribute to the robust growth trajectory of this segment.

““The Europe is growing at the highest CAGR in the monoclonal antibody therapeutics market during the forecast period of 2024-2029.”

North America dominates the monoclonal antibody therapeutics market. Europe, is likely to grow at highest CAGR owing to various factors such as favorable regulatory frameworks, robust healthcare infrastructure, increasing investment in research and development, and rising prevalence of chronic diseases. These elements collectively foster a conducive environment for market expansion and innovation.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 70% and Demand Side 30%

By Designation: Managers - 45%, CXOs and Directors - 30%, and Executives- 25%

By Region: North America -40%, Europe -25%, Asia-Pacific -20%, Latin America -10%, Middle East & Africa- 5%

List of Companies Profiled in the Report:

F. Hoffmann-La Roche Ltd (Switzerland)

Abbvie Inc. (US)

Johnson & Johnson Services, Inc. (US)

Merck & Co., Inc. (US)

Bristol Myers Squibb Company (US)

AstraZeneca (UK)

Sanofi (France)

Novartis AG (Switzerland)

Amgen Inc. (US)

Takeda Pharmaceutical Company Limited (Japan)

GSK plc. (UK)

Eli Lilly and Company (US)

Regeneron Pharmaceuticals Inc. (US)

Biogen (US)

UCB S.A. (Belgium)

Boehringer Ingelheim International GmbH (Germany)

Y-mAbs Therapeutics Inc. (US)

Teva Pharmaceutical Industries Ltd. (Israel),

Merck KGaA (Germany)

Kyowa Kirin Co. Ltd. (Japan)

Swedish Orphan Biovitrum AB (Sweden)

United Therapeutics Corporation (US)

Theratechnologies Inc. (Canada)

Incyte (US)

Sun Pharmaceutical Industries Ltd. (India)

Research Coverage:

This research report categorizes the monoclonal antibody therapeutics market by production method (in-vitro and in-vivo), source (human, humanized, chimeric and other sources), therapy area (autoimmune & inflammatory disorders, Oncology, Hematology, ophthalmology and other therapy area), route of administration (intravenous, subcutaneous and other route of administration), end user (hospitals, long-term care facilities, and other end user) and by region (North America, Europe, Asia Pacific, Latin America, Middle East, and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, challenges, opportunities, and trends influencing the growth of the monoclonal antibody therapeutics market. A detailed analysis of the key industry players has been done to provide insights into their business overview, product/service portfolio, key strategies such as collaborations, partnerships, expansions, agreements, acquisitions, and recent developments associated with the monoclonal antibody therapeutics market. Competitive analysis of top players and upcoming startups in the monoclonal antibody therapeutics market ecosystem is covered in this report.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall monoclonal antibody therapeutics market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Advancements in biotechnology and genetic engineering, Increasing demand for personalized medicine, Growing product pipeline of innovative mAb therapeutics) restraints (Stringent regulatory approval process and High cost of mAb treatments), opportunities (Innovative therapeutic indications, Rising technological advancements in antibody engineering), and challenges (Rising production costs for mAbs) influencing the growth of the market.

Product Development/Innovation: Detailed insights on newly launched products of the monoclonal antibody therapeutics market

Clinical Trials: Detail Analysis on the products under clinical trials phase III and phase II&III.

Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.

Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the monoclonal antibody therapeutics market

Competitive Assessment: are F. Hoffmann-La Roche Ltd (Switzerland), Abbvie Inc. (US), Johnson & Johnson Services, Inc. (US), Merck & Co., Inc. (US), Bristol Myers Squibb Company (US), AstraZeneca (UK), Sanofi (France), Novartis AG (Switzerland), Amgen Inc. (US), Takeda Pharmaceutical Company Limited (Japan), GSK plc. (UK), Eli Lilly and Company (US), among others in the market.

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*Details on Business overview, Products/Services offered, Recent developments & MnM View might not be captured in case of unlisted companies.

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