Global Markets for Research Antibodies

Market Research Report | 2024-01-10 | 485 pages | BCC Research

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Report description:

Description

Report Scope:

This study focuses on the market side of research antibodies, as opposed to the technical side. Different market segments for this specific market are covered. Application-based market segments include enzyme-linked immunosorbent assay (ELISA), western blotting (WB), immunohistochemistry (IHC)(types of tissue multiplexing segments), immunofluorescent staining (IF), immunoprecipitation and flow cytometry (FC); antibody function-based market segments include primary antibodies and secondary antibodies; antibody clonality-based market segments include polyclonal antibodies and monoclonal antibodies, including recombinant antibodies; customer type-based market segments include universities and academic institutions, pharmaceutical and biotech companies and other types of customers (e.g., governmental research labs, contract research organizations [CROs]); geography-based market segments include North America, Europe, Asia-Pacific and Rest of World. Research and market trends are also extrapolated by analyzing the funding, patent publications and sales trends of major players in the field.

In this report, the market for research antibodies is segmented based on product type, clonality, host species, major reactivities, applications, end-user, and geography. Based on application type, the market is segmented into enzyme-linked immunosorbent assay (ELISA), western blotting (WB), immunohistochemistry (IHC) (i.e., types of tissue multiplexing segments), immunofluorescent staining (IF), immunoprecipitation and flow cytometry (FC). Based on major reactivities, the market is segmented into anti-human, anti-rat and anti-mouse. The market is also presented based on product type, which is further segmented into primary and secondary antibodies.

The market has been geographically segmented into the North America, Europe, Asia-Pacific and Rest of the World (i.e., South America, Middle East and Africa) regions. Detailed analysis of major countries (e.g., the U.S., Germany, the U.K., Italy, France,

Spain, Japan, China, India, Brazil, Mexico, and GCC countries) will be covered in the regional segment. For market estimates, data will be provided for 2022 as the base year, with estimates for 2023 and forecast value for 2028.

Report Includes:

- 145 data tables and 45 additional tables
- An overview of the global market landscape related to the research antibodies
- In-depth analysis of global market trends, featuring historical revenue data for 2020-2022, estimated figures for 2023, as well as forecasts for 2028. This analysis includes projections of Compound Annual Growth Rates (CAGRs) spanning through 2028
- Evaluation of the current market size and revenue growth prospects specific to research antibodies, accompanied by a comprehensive market share analysis categorized by product, clonality, application, major reactivities, host species, end-user, and geographical region
- Discussion on the factors affecting the companies' market shares, the current strategies of antibody companies, the effect of research funding, and the third-party quality evaluation systems of research antibodies
Description of antibody technologies, emerging antibody generation technologies and identification of market drivers, restraints and other forces impacting the global market
- Discussion on technological trends in antibody production and application, and information on antibody-based drug discovery and development process
- Impact analysis of COVID-19 on entire pharma industry and discussion on how COVID-19 is related to pharmaceutical industry's growth slow-down and results in delayed approvals for non-COVID-19-related pharmaceutical/biotech products
- Coverage of new discoveries in biological sciences, rapid technological developments in the IVD industry, new antibody technologies and antibody types, and assessment of antibody-based drug discovery and development
- Discussion on advantages and disadvantages of antibody discovery technologies with examples of antibody production, and information on REpAb technology
- Coverage of FDA and international regulations, details of recent regulatory reforms and list of antibody therapeutics granted in 2018 and insights into government initiatives and funding in emerging markets
- Examination of environmental, social, and corporate governance (ESG) developments, a relevant patent analysis; and merger and acquisitions (M&A), venture fundings, and emerging technologies in the global research antibodies
- Detailed profiles of leading market participants, providing a descriptive overview of their respective businesses, including Abcam Plc, Thermo Fisher Scientific Inc., Cell Signaling Technology Inc., Merck KGaA, Sino Biological Inc., and Bio-Rad

Executive Summary

Summary:

The global market for research antibodies was valued at approximately $REDACTED billion in 2022. Among product segments, the primary antibody segment accounted for the highest market share in the global market for research antibodies in 2022. The primary antibody segment recorded $REDACTED billion in revenue in 2022, and this segment is expected to grow at a CAGR of REDACTED% during the forecast period. The high growth rate of this segment is attributed to such factors as demand of antibodies research, the COVID- 19 pandemic, other infectious diseases and an increase in R&D activities by key companies to emerge with new antibodies to counter the global rise in different infectious diseases (e.g., HIV, malaria, dengue). The advancement of biological discoveries will result in the need for more molecular targets to be detected by their antibodies.

Antibodies for each of its many forms of post-translational modifications are needed, even for the same protein molecule. This is likely to propel the growth of the market for research antibodies during the forecast period.

Primary antibodies are used alone or in combination with a secondary antibody. Primary antibodies conjugated to fluorochromes

are used in flow cytometry, whereas in microscopy, a primary-secondary antibody combination is used to increase the signal.

According to the Antibiotic.com, one supplier of antibodies states that primary antibodies can be used against any antigen, including proteins, peptides, carbohydrates and other small molecules. Primary antibodies can also be raised to recognize post-translational modifications, such as phosphorylation, acetylation, methylation and glycosylation. The supplier therefore offers more than REDACTED unconjugated and directly conjugated primary antibodies directed against more than REDACTED targets.

The secondary antibody segment is expected to grow at a CAGR of REDACTED% during the forecast period. A rise in basic or clinical research to detect specific cell or tissue components (antigens), a shorter assay time, an increase in the versatility, antigen signal detection and amplification are likely to fuel the segment's growth in the next few years.

This report segments the global market for research antibodies based on type of antibody, clonality, host, major reactivities, application, end user and region.

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