

Research Antibodies Market Latest Report, Innovations, Industry Analysis and Future Market Projections | BioLegend Inc.

Research antibodies act as vital tools in laboratory techniques such as western blotting etc. that are conducted for research purposes.

BURLINGAME, CALIFORNIA , UNITED STATES, November 29, 2023 /EINPresswire.com/ -- Global Research Antibodies Market is estimated to be valued at US\$ 3,574.6 Mn in 2022, and is expected to exhibit a CAGR 5.9% over the forecast period (2022-2030).



Research Antibodies Market

Market Overview:

Research antibodies are primarily used in scientific research activities including drug discovery, proteomics, genomics, and Western blotting. They are utilized for identification, quantification and purification of biomolecules like proteins in biological samples.

Market Dynamics:

The research antibodies market is expected to witness significant growth over the forecast period owing to increasing adoption of monoclonal antibodies and rising proteomics research activities. Monoclonal antibodies offer high specificity and sensitivity and have wide applications in research such as in protein assays, immunohistochemistry (IHC), immunocytochemistry (ICC), flow cytometry, and immunoprecipitation techniques. Additionally, growing demand for personalized medicine has boosted research in fields like genomics and proteomics which in turn is driving the market growth. Furthermore, rising government funding for proteomics and biomedical research globally is fueling the demand for research antibodies during the forecast period.

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Increasing Demand for Customized and Specific Monoclonal Antibodies

The research antibodies market has witnessed significant growth over the past few years owing to the increasing demand for customized and specific monoclonal antibodies. Monoclonal antibodies have high specificity and affinity for a specific antigen making them an indispensable tool for research applications. Their use helps researchers obtain more accurate and precise results. With an increasing focus on precision medicine and targeted therapies, demand for customized monoclonal antibodies has surged. Leading research labs and pharma companies are investing heavily in developing novel monoclonal antibodies to target various diseases. The unique properties of monoclonal antibodies have also increased their application in developing diagnostic kits and assays. This growing need for customized research tools will continue to drive the monoclonal antibodies market.

Rising Prevalence of Chronic and Life-threatening Diseases

The increasing global prevalence of diseases like cancer, cardiovascular ailments, diabetes, and neurodegenerative disorders has boosted research activity significantly. As researchers focus on developing advanced disease diagnostic methods and innovative treatments, the demand for high-quality research antibodies is expected to rise tremendously. Antibodies help gain a better understanding of disease pathology and aid in identifying new biomarkers and drug targets. They play a crucial role in expediting the drug discovery process. With disease burden continuing to swell worldwide, funding for medical research is also increasing consistently. This augurs well for the growth of the research antibodies industry as more research projects mean higher consumption of these tools.

Stringent Regulations on Production and Testing Processes

While advances in antibody engineering technologies have expanded applications, regulatory policies can pose a challenge to market players. Producers need to comply with strict guidelines set by regulatory bodies like the FDA regarding the production, processing, testing, and labeling of research antibodies. The Quality by Design (QbD) concept prohibits the sale of certain types of antibodies or requires additional quality control steps, raising production costs. Any change in approved manufacturing protocols also has to be communicated to regulators, causing delays. Complying with changing regulatory frameworks in different regions requires extensive validation documentation that increases the cost of operations for companies. However, regulations are essential to ensure product quality and safety.

Increased Outsourcing of Custom Antibody Development Services

To cater to the personalized needs of researchers and focus on their core competencies, many academic institutes and pharmaceutical companies are outsourcing custom antibody development and production services. They rely on experienced contract service providers

having expertise in antibody engineering, production, purification, and characterization. This trend is creating lucrative opportunities for antibody specialist contract research organizations (CROs) and contract manufacturing organizations (CMOs). Demand for outsourcing is growing due to benefits like reduced development timelines, access to state-of-the-art technologies, and economies of scale. Leading CROs have widened their antibody portfolios and customized service offerings to gain a larger share of this outsourcing market. The outsourcing model ensures continued growth of the research antibodies industry.

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Increased Adoption of Recombinant Polyclonal Antibodies

With innovations in antibody discovery technologies, novel antibody formats like recombinant polyclonal antibodies (rpAbs) are gaining popularity among researchers. Compared to conventional monoclonal antibodies, rpAbs have certain advantages like high specificity and affinity across multiple epitopes, lower immunogenic potential, and applicability in complex samples. They generate consistent results and are relatively easy to scale up. Using advanced screening platforms, scientists can develop rpAbs against various targets in a short timeframe. Several biotechs are commercializing rpAb libraries and services. More researchers are incorporating these novel antibody fragments in their studies for applications like immunoassays, protein analyses, and disease diagnostics. rpAbs are expected to have a significant impact on the research antibodies market landscape owing to their unique properties and growing acceptance.

Moreover, it will also include the opportunities available in micro markets for stakeholders to invest, a detailed analysis of the competitive landscape, and product services of key players. Analysis of Research Antibodies companies, key tactics followed by Leading Key Players:

- Thermo Fisher Scientific Inc
- Bio-rad Laboratories
- Lonza Group
- Merck Millipore
- Cell Signalling Technology Inc.
- F.Hoffmann La Roche Ltd.
- Novartis AG
- Takeda Pharmaceutical Company
- Agilent Technologies
- Danaher Corporation
- BioLegend Inc.
- Illumina
- Phoenix Pharmaceuticals
- Abcam plc

Note: Major Players are sorted in no particular order.

By Product Type:

- Primary Antibodies
- Secondary Antibodies
- Reagents
- Consumables

By Form:

- Monoclonal Antibodies
- Polyclonal Antibodies
- Recombinant Antibodies

By Source:

- Mouse
- Rabbit
- Goat
- Others (Guinea Pigs, Rat etc.)

By Application:

- Western Blotting
- ELISA
- Flow Cytometry
- Immunocytochemistry (ICC)/ Immunofluorescence (IF)
- Immunohistochemistry (IHC)
- Others (Immunoprecipitation, Multiplex Immunosorbent Assay and etc.)

By End User:

- Academic & Research Institutes
- Contract Research Organizations
- Pharmaceutical & Biotechnology Companies

The Study Objectives are:

A comprehensive insight into key players operating in the Research Antibodies Market and their corresponding data.
It includes product portfolio, annual revenue, expenditure on research and development,

geographical presence, key developments in recent years, and growth strategies.

Regional analysis, which includes insight into the dominant market and corresponding market share.

It also includes various socio-economic factors affecting the evolution of the market in the region.

The report offers a comprehensive insight into different individuals from value chains such as raw materials suppliers, distributors, and stockholders.

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Key Questions Answered:

What is the market size and CAGR of the Research Antibodies Market during the forecast period?

How is the growing demand impacting the growth of Research Antibodies Market shares?

What is the growing demand of the Market during the forecast period?

Who are the leading vendors in the market and what are their market shares?

What is the impact of the COVID-19 pandemic on the APAC Research Antibodies Market?

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