

Global Markets for Research Antibodies

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

AVAILABLE LICENSES:

- Single User License \$5500.00
- 2-5 Users License \$6600.00
- Site License \$7920.00
- Enterprise License \$9504.00

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,

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott-international.com

www.scott-international.com

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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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.

Table of Contents:

Table of Contents

Chapter 1 Introduction

Study Goals and Objectives

Reasons for Doing This Study

Scope of Report

What's New in this Update

Methodology

Information Sources

Geographic Breakdown

Segmentation Breakdown

Chapter 2 Summary and Highlights

Market Overview

Market Summary

Chapter 3 Market and Technology Background

Introduction

History and Current State

Background of the Antibody and Its Production

Current Status and Issues

Overview of Antibody Technology

Traditional Antibody Generation Technologies

Antibody Generation Technologies

Antibody Validation Methods

Trends in the Market for Research Antibodies

Purchasing Factors Analysis

Third-Party Quality Evaluation Systems

Research Grants

Journal Citations Analysis

Technological Trends in Antibody Production and Application

Chapter 4 Research Antibodies

Introduction

Enzyme-Linked Immunosorbent Assay/Enzyme-Linked Immunosorbent Spot

Direct ELISA

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Indirect ELISA
Competitive ELISA
Sandwich ELISA
ELISPOT Assays
FluoroSpot Assays
Emerging Technologies or Platforms in ELISA
Western Blot
One-Dimensional Gel Electrophoresis
Two-Dimensional Gel Electrophoresis
Emerging Technologies and Platforms in Western Blot
Immunohistochemistry
Multiplexed Staining
Low-Flexed Staining
Flow Cytometry
Emerging Technologies/Platforms in Flow Cytometry
Immunocytochemistry and Immunofluorescent Staining
Chromatin Immunoprecipitation
Other Antibody Applications
Antibody Arrays
Chapter 5 Market Dynamics
Market Drivers
New Discoveries in Biological Sciences
Rapid Technological Developments in the In Vitro Diagnostic Industry
New Antibody Technologies and Types
Antibody-Based Drug Discovery and Development
Developed and Increasing Research Areas
Increased Government Funding in Emerging Markets
Need for Further Human Genomic and Proteomic Research
Need for Quality Antibodies in the Current Research Community
Need for Antibody Custom Services
New Application-Focused Technology Platforms
Market Restraints
Limited Research Funding
Low Validation Technologies
Decline in Suppliers
Decrease in Market Acceptance or Brand Trust
Market and Economic Risk
Market Opportunities
Market Expansion into Emerging Countries
Development of Novel Research Antibodies
Chapter 6 Market Breakdown by Type of Antibody
Global Market for Research Antibodies by Type
Primary Antibodies
Secondary Antibodies
Chapter 7 Market Breakdown by Clonality
Global Market for Research Antibodies by Clonality
Polyclonal Antibodies

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Monoclonal Antibodies
- Recombinant Antibodies
- Chapter 8 Market Breakdown by Major Reactivity
- Global Market for Research Antibodies by Major Reactivity
- Human (Anti-Human)
- Mouse (Anti-Mouse)
- Rat (Anti-Rat)
- Others
- Chapter 9 Market Breakdown by Application
- Global Market for Research Antibodies by Application
- Western Blot
- Flow Cytometry
- Immunohistochemistry
- Immunocytochemistry
- Immunofluorescent Staining
- Immunoprecipitation
- ELISA
- Chapter 10 Market Breakdown by Host Species
- Global Market for Research Antibodies by Host Species
- Rabbit Host Species
- Goat Host Species
- Mouse-Host Species
- Sheep Host Species
- Donkey Host Species
- Other Host Species
- Chapter 11 Market Breakdown by End User
- Global Market for Research Antibodies by End User
- Universities and Academic Institutions
- Pharma and Biotech Companies
- Other End Users
- Chapter 12 Market Breakdown by Region
- Global Market for Research Antibodies by Region
- North America
- Europe
- Asia-Pacific
- Rest of World
- Chapter 13 Sustainability in the Research Antibodies Industry: An Environment, Social and Governance Sustainability in the Research
- Importance of Environment, Social and Governance in the Research Antibodies Manufacturing Industry
- Environment, Social and Governance Ratings and Metrics: Understanding the Data
- Environmental, Social and Governance Practices in the Research Antibodies Manufacturing Industry
- Environmental Performance
- Social Performance
- Governance Performance
- Case Studies
- BCC Research Viewpoint
- Chapter 14 Emerging Technology for Antibody Discovery and Generation

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Traditional Antibody Discovery and Generation Technologies
Animal Plasma Isolation
Hybridoma Generation
B Cell Screening
Display Technologies
Emerging Antibody Discovery and Generation Technologies
Emerging Trends in the Antibody Production Technologies
Polyclonal Antibody Sequencing
Single B Cell Sequencing
Machine Learning-Assisted Discovery and Generation
Advantages and Disadvantages of Antibody Discovery Technologies
Examples of Antibody Production and Technologies
REpAb Technology
Boehringer Ingelheim's Partnership with Company
COVID-19 Vaccines by EABR Technology
First Therapeutic Antibody
Challenges and Future Research Direction
Chapter 15 Approved Monoclonal Antibodies, 2018-2023
Chapter 16 M&A and Venture Funding Outlook
Mergers and Acquisitions Analysis
Merger and Acquisition Deals: 2018-2023
Chapter 17 Competitive Landscape
Global Company Market Ranking
Distribution of the WHO's International Standard for Anti-SARS-CoV-2 Immunoglobulin
Top 100 Antibodies by Major Key Companies
Chapter 18 Company Profiles
ABCAM PLC
ABSOLUTE ANTIBODY LTD.
AGILENT TECHNOLOGIES INC.
BD BIOSCIENCES
BIO-RAD (ABD SEROTEC)
BIO-TECHNE
CELL SIGNALING TECHNOLOGY INC.
DANAHER
JACKSON IMMUNORESEARCH LABORATORIES INC.
LONZA
MERCK KGAA (SIGMA-MILLIPORE)
ROCKLAND IMMUNOCHEMICALS INC.
SANTA CRUZ BIOTECHNOLOGY INC.
SINO BIOLOGICAL INC.
THERMO FISHER SCIENTIFIC INC.
UNITED STATES BIOLOGICAL
Chapter 19 Appendix: Acronyms

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Global Markets for Research Antibodies

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

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$5500.00
	2-5 Users License	\$6600.00
	Site License	\$7920.00
	Enterprise License	\$9504.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-03"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

