

U.S. Antibody Drug Conjugates Market Size, Share & Trends Analysis Report By Application (Blood Cancer, Breast Cancer, Urothelial Cancer & Bladder Cancer), By Technology, By Product, By Target, And Segment Forecasts, 2025 - 2030

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Abstracts

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U.S. Antibody Drug Conjugates Market Summary

The U.S. antibody drug conjugates market size was valued at USD 7.15 billion in 2024 and is projected to reach USD 10.60 billion by 2030, growing at a CAGR of 4.9% from 2025 to 2030. This can be attributed to the increasing incidence of cancer cases and increased demand for low-toxicity & effective drugs.

Also, pharmaceutical and biotech companies are investing heavily in researching and developing antibody drug conjugates (ADCs), propelling market growth. The growing number of cancer cases in the U.S. significantly fuels demand for targeted therapies like ADCs. According to the American Cancer Society Inc., in 2024, over 2 million new cancer cases were detected in the U.S. The number of cancer cases is rising due to various factors such as aging populations, lifestyle changes, and improved diagnostic capabilities. ADCs offer a highly focused approach that delivers cytotoxic drugs straight to cancer cells, reducing damage to healthy tissues. This accuracy makes ADCs preferred to traditional chemotherapy, especially for challenging cancers.

The rising funding is accelerating the development of ADCs across a wider range of indications beyond oncology. For instance, in March 2025, Callio Therapeutics, a biotechnology firm dedicated to multi-payload ADCs aimed at cancer treatment,

declared its launch after securing USD 187 million in Series A funding led by Frazier Life Sciences. Callio intends to use the funds to progress clinical proof-of-concept for its HER2-targeted dual-payload ADC.

The rising technological innovations in antibody manufacturing, linker stability, and cytotoxic payloads have led to the development of effective and safer ADCs. In September 2024, Merck launched the Mobius ADC Reactor, a single-use reactor designed to manufacture ADCs that precisely target and eliminate tumor cells while leaving healthy tissue unharmed.

Mergers and acquisitions (M&A) are moderate, with prominent pharmaceutical companies focusing on acquiring companies with expertise in ADC technologies to improve their oncology portfolios. For instance, in March 2024, Johnson & Johnson Services, Inc. acquired Ambrx Biopharma, Inc. It has a proprietary synthetic biology technology platform to develop and design next-generation ADC. This is expected to deliver differentiated solid tumor treatment to improve the lives of patients'.

U.S. Antibody Drug Conjugates Market Report Segmentation

This report forecasts revenue growth at country level and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the U.S. antibody drug conjugates market report based on application, product, target, and technology:

Application (Revenue, USD Million, 2018 - 2030)

Blood Cancer

Leukemia

Lymphoma

Multiple Myeloma

Breast Cancer

Urothelial Cancer & Bladder Cancer

Other Cancer

Product Outlook (Revenue, USD Million, 2018 - 2030)

Kadcyla

Enhertu

Adcetris

Padcev

Trodely

Polivy

Others

Target Outlook (Revenue, USD Million, 2018 - 2030)

HER2

CD22

CD30

Others

Technology Outlook (Revenue, USD Million, 2018 - 2030)

Type

Cleavable Linker

Non-cleavable Linker

Linkerless

Linker Technology Type

VC

Sulfo-SPDB

VA

Hydrazone

Others

Payload Technology

MMAE

MMAF

DM4

Camptothecin

Others

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