

South Korea Cancer Biomarkers Market Size, Share, Trends and Forecast by Profiling Technology, Biomolecule, Cancer Type, Application, End User, and Region, 2026-2034

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Abstracts

The South Korea cancer biomarkers market size reached USD 662.4 Million in 2025. The market is projected to reach USD 1,626.7 Million by 2034, exhibiting a growth rate (CAGR) of 10.18% during 2026-2034. The market is fueled by the increasing prevalence of different types of cancer in South Korea, which is creating a higher demand for early diagnosis and precision diagnostics. Besides that, improvements in genomics, proteomics, and high-throughput screening technologies are increasing the reliability and affordability of tests based on cancer biomarkers. Furthermore, encouraging government policies, increasing investments in oncology research, and the wider application of personalized medicine are key drivers augmenting the South Korea cancer biomarkers market share.

SOUTH KOREA CANCER BIOMARKERS MARKET TRENDS:

Increasing Prevalence of Cancer Driving Demand for Early Detection Biomarkers

The rising prevalence of cancer in South Korea is a significant factor that is increasing the demand for biomarker-based diagnostics and monitoring tools. According to industry reports, South Korea recorded approximately 292,221 newly diagnosed cancer cases and 83,770 cancer-related deaths in 2024. Thyroid cancer was the most frequently occurring type, followed by cancers of the colon and rectum, lungs, breast, and stomach. Collectively, these five cancer types account for 55.7% of the country's total cancer burden. This escalating cancer burden has intensified the need for early detection and precision diagnostic solutions, positioning biomarkers as a critical

component of South Korea's national cancer management strategy. Moreover, biomarkers enable the identification of malignancies at early stages, when treatment outcomes are more favorable, and cost burdens are significantly lower. As a result, healthcare providers are increasingly incorporating biomarker screening into routine health check-ups and cancer surveillance programs. Additionally, patient awareness about preventive screening is growing, which is further supporting the integration of biomarker technologies across both public and private healthcare institutions.

Robust Government Support

Government initiatives and public-sector funding play a pivotal role in contributing to the South Korea cancer biomarkers market growth. Additionally, the South Korean government, particularly through the Ministry of Health and Welfare and the Ministry of Science and ICT, is heavily investing in biomedical innovation under its broader strategy to position the country as a global leader in biotechnology. Apart from this, multiple national projects, strategic partnerships, and initiatives are supporting cancer research and prioritizing the development and deployment of advanced diagnostics, including cancer biomarkers. For instance, on November 19, 2024, the U.S. National Cancer Institute (NCI) and South Korea's National Institute of Food and Drug Safety Evaluation (NIFDS) formalized a memorandum of understanding to enhance international cooperation in cancer research and control. The partnership aims to foster joint initiatives, professional exchanges, and research training programs to advance global cancer prevention, diagnosis, and treatment. Also, dedicated bio-clusters such as the Osong Medical Innovation Foundation offer infrastructure and funding for startups and research labs focused on cancer biomarker development. These initiatives are reinforced by favorable regulatory reforms and streamlined clinical trial approval processes, which are helping accelerate the commercialization and adoption of novel biomarker solutions in clinical settings. This institutional backing significantly enhances innovation capacity and market expansion.

SOUTH KOREA CANCER BIOMARKERS MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels 2026-2034. Our report has categorized the market based on profiling technology, biomolecule, cancer type, application, and end user.

Profiling Technology Insights:

Omic Technologies

Imaging Technologies

Immunoassays

Cytogenetics

The report has provided a detailed breakup and analysis of the market based on the profiling technology. This includes omic technologies, imaging technologies, immunoassays, and cytogenetics.

Biomolecule Insights:

Genetic Biomarkers

Protein Biomarkers

Glyco-Biomarkers

A detailed breakup and analysis of the market based on the biomolecule have also been provided in the report. This includes genetic biomarkers, protein biomarkers, and glyco-biomarkers.

Cancer Type Insights:

Breast Cancer

Lung Cancer

Colorectal Cancer

Prostate Cancer

Stomach Cancer

Others

The report has provided a detailed breakup and analysis of the market based on the cancer type. This includes breast cancer, lung cancer, colorectal cancer, prostate cancer, stomach cancer, and others.

Application Insights:

Diagnostics

Prognostics

Risk Assessment

Drug Discovery and Development

Others

A detailed breakup and analysis of the market based on the application have also been provided in the report. This includes diagnostics, prognostics, risk assessment, drug discovery and development, and others.

End User Insights:

Hospitals

Academic and Research Institutions

Ambulatory Surgical Centers

Diagnostic Laboratories

Others

The report has provided a detailed breakup and analysis of the market based on the end user. This includes hospitals, academic and research institutions, ambulatory surgical centers, diagnostic laboratories, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea cancer biomarkers market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea cancer biomarkers market on the basis of profiling technology?

What is the breakup of the South Korea cancer biomarkers market on the basis of biomolecule?

What is the breakup of the South Korea cancer biomarkers market on the basis of cancer type?

What is the breakup of the South Korea cancer biomarkers market on the basis of application?

What is the breakup of the South Korea cancer biomarkers market on the basis of end user?

What is the breakup of the South Korea cancer biomarkers market on the basis of region?

What are the various stages in the value chain of the South Korea cancer biomarkers market?

What are the key driving factors and challenges in the South Korea cancer biomarkers market?

What is the structure of the South Korea cancer biomarkers market and who are the key players?

What is the degree of competition in the South Korea cancer biomarkers market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 SOUTH KOREA CANCER BIOMARKERS MARKET - INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 SOUTH KOREA CANCER BIOMARKERS MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends (2020-2025)
- 5.2 Market Forecast (2026-2034)

6 SOUTH KOREA CANCER BIOMARKERS MARKET - BREAKUP BY PROFILING TECHNOLOGY

- 6.1 Omic Technologies
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (2020-2025)
 - 6.1.3 Market Forecast (2026-2034)
- 6.2 Imaging Technologies
 - 6.2.1 Overview

6.2.2 Historical and Current Market Trends (2020-2025)

6.2.3 Market Forecast (2026-2034)

6.3 Immunoassays

6.3.1 Overview

6.3.2 Historical and Current Market Trends (2020-2025)

6.3.3 Market Forecast (2026-2034)

6.4 Cytogenetics

6.4.1 Overview

6.4.2 Historical and Current Market Trends (2020-2025)

6.4.3 Market Forecast (2026-2034)

7 SOUTH KOREA CANCER BIOMARKERS MARKET - BREAKUP BY BIOMOLECULE

7.1 Genetic Biomarkers

7.1.1 Overview

7.1.2 Historical and Current Market Trends (2020-2025)

7.1.3 Market Forecast (2026-2034)

7.2 Protein Biomarkers

7.2.1 Overview

7.2.2 Historical and Current Market Trends (2020-2025)

7.2.3 Market Forecast (2026-2034)

7.3 Glyco-Biomarkers

7.3.1 Overview

7.3.2 Historical and Current Market Trends (2020-2025)

7.3.3 Market Forecast (2026-2034)

8 SOUTH KOREA CANCER BIOMARKERS MARKET - BREAKUP BY CANCER TYPE

8.1 Breast Cancer

8.1.1 Overview

8.1.2 Historical and Current Market Trends (2020-2025)

8.1.3 Market Forecast (2026-2034)

8.2 Lung Cancer

8.2.1 Overview

8.2.2 Historical and Current Market Trends (2020-2025)

8.2.3 Market Forecast (2026-2034)

8.3 Colorectal Cancer

8.3.1 Overview

8.3.2 Historical and Current Market Trends (2020-2025)

8.3.3 Market Forecast (2026-2034)

8.4 Prostate Cancer

8.4.1 Overview

8.4.2 Historical and Current Market Trends (2020-2025)

8.4.3 Market Forecast (2026-2034)

8.5 Stomach Cancer

8.5.1 Overview

8.5.2 Historical and Current Market Trends (2020-2025)

8.5.3 Market Forecast (2026-2034)

8.6 Others

8.6.1 Historical and Current Market Trends (2020-2025)

8.6.2 Market Forecast (2026-2034)

9 SOUTH KOREA CANCER BIOMARKERS MARKET - BREAKUP BY APPLICATION

9.1 Diagnostics

9.1.1 Overview

9.1.2 Historical and Current Market Trends (2020-2025)

9.1.3 Market Forecast (2026-2034)

9.2 Prognostics

9.2.1 Overview

9.2.2 Historical and Current Market Trends (2020-2025)

9.2.3 Market Forecast (2026-2034)

9.3 Risk Assessment

9.3.1 Overview

9.3.2 Historical and Current Market Trends (2020-2025)

9.3.3 Market Forecast (2026-2034)

9.4 Drug Discovery and Development

9.4.1 Overview

9.4.2 Historical and Current Market Trends (2020-2025)

9.4.3 Market Forecast (2026-2034)

9.5 Others

9.5.1 Historical and Current Market Trends (2020-2025)

9.5.2 Market Forecast (2026-2034)

10 SOUTH KOREA CANCER BIOMARKERS MARKET - BREAKUP BY END USER

10.1 Hospitals

10.1.1 Overview

10.1.2 Historical and Current Market Trends (2020-2025)

10.1.3 Market Forecast (2026-2034)

10.2 Academic and Research Institutions

10.2.1 Overview

10.2.2 Historical and Current Market Trends (2020-2025)

10.2.3 Market Forecast (2026-2034)

10.3 Ambulatory Surgical Centers

10.3.1 Overview

10.3.2 Historical and Current Market Trends (2020-2025)

10.3.3 Market Forecast (2026-2034)

10.4 Diagnostic Laboratories

10.4.1 Overview

10.4.2 Historical and Current Market Trends (2020-2025)

10.4.3 Market Forecast (2026-2034)

10.5 Others

10.5.1 Historical and Current Market Trends (2020-2025)

10.5.2 Market Forecast (2026-2034)

11 SOUTH KOREA CANCER BIOMARKERS MARKET – BREAKUP BY REGION

11.1 Seoul Capital Area

11.1.1 Overview

11.1.2 Historical and Current Market Trends (2020-2025)

11.1.3 Market Breakup by Profiling Technology

11.1.4 Market Breakup by Biomolecule

11.1.5 Market Breakup by Cancer Type

11.1.6 Market Breakup by Application

11.1.7 Market Breakup by End User

11.1.8 Key Players

11.1.9 Market Forecast (2026-2034)

11.2 Yeongnam (Southeastern Region)

11.2.1 Overview

11.2.2 Historical and Current Market Trends (2020-2025)

11.2.3 Market Breakup by Profiling Technology

11.2.4 Market Breakup by Biomolecule

11.2.5 Market Breakup by Cancer Type

- 11.2.6 Market Breakup by Application
- 11.2.7 Market Breakup by End User
- 11.2.8 Key Players
- 11.2.9 Market Forecast (2026-2034)
- 11.3 Honam (Southwestern Region)
 - 11.3.1 Overview
 - 11.3.2 Historical and Current Market Trends (2020-2025)
 - 11.3.3 Market Breakup by Profiling Technology
 - 11.3.4 Market Breakup by Biomolecule
 - 11.3.5 Market Breakup by Cancer Type
 - 11.3.6 Market Breakup by Application
 - 11.3.7 Market Breakup by End User
 - 11.3.8 Key Players
 - 11.3.9 Market Forecast (2026-2034)
- 11.4 Hoseo (Central Region)
 - 11.4.1 Overview
 - 11.4.2 Historical and Current Market Trends (2020-2025)
 - 11.4.3 Market Breakup by Profiling Technology
 - 11.4.4 Market Breakup by Biomolecule
 - 11.4.5 Market Breakup by Cancer Type
 - 11.4.6 Market Breakup by Application
 - 11.4.7 Market Breakup by End User
 - 11.4.8 Key Players
 - 11.4.9 Market Forecast (2026-2034)
- 11.5 Others
 - 11.5.1 Historical and Current Market Trends (2020-2025)
 - 11.5.2 Market Forecast (2026-2034)

12 SOUTH KOREA CANCER BIOMARKERS MARKET – COMPETITIVE LANDSCAPE

- 12.1 Overview
- 12.2 Market Structure
- 12.3 Market Player Positioning
- 12.4 Top Winning Strategies
- 12.5 Competitive Dashboard
- 12.6 Company Evaluation Quadrant

13 PROFILES OF KEY PLAYERS

13.1 Company A

- 13.1.1 Business Overview
- 13.1.2 Products Offered
- 13.1.3 Business Strategies
- 13.1.4 SWOT Analysis
- 13.1.5 Major News and Events

13.2 Company B

- 13.2.1 Business Overview
- 13.2.2 Products Offered
- 13.2.3 Business Strategies
- 13.2.4 SWOT Analysis
- 13.2.5 Major News and Events

13.3 Company C

- 13.3.1 Business Overview
- 13.3.2 Products Offered
- 13.3.3 Business Strategies
- 13.3.4 SWOT Analysis
- 13.3.5 Major News and Events

13.4 Company D

- 13.4.1 Business Overview
- 13.4.2 Products Offered
- 13.4.3 Business Strategies
- 13.4.4 SWOT Analysis
- 13.4.5 Major News and Events

13.5 Company E

- 13.5.1 Business Overview
- 13.5.2 Products Offered
- 13.5.3 Business Strategies
- 13.5.4 SWOT Analysis
- 13.5.5 Major News and Events

14 SOUTH KOREA CANCER BIOMARKERS MARKET - INDUSTRY ANALYSIS

14.1 Drivers, Restraints, and Opportunities

- 14.1.1 Overview
- 14.1.2 Drivers
- 14.1.3 Restraints
- 14.1.4 Opportunities

14.2 Porters Five Forces Analysis

14.2.1 Overview

14.2.2 Bargaining Power of Buyers

14.2.3 Bargaining Power of Suppliers

14.2.4 Degree of Competition

14.2.5 Threat of New Entrants

14.2.6 Threat of Substitutes

14.3 Value Chain Analysis

15 APPENDIX

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