

Immune Biomarker

An **immune biomarker** is a measurable indicator related to the immune system that reflects immune activation, suppression, or regulation. These biomarkers are used in **diagnosis**, **prognosis**, and **monitoring** of diseases, especially in oncology, immunology, and infectious diseases.

Examples

- 'CD4+ T cells': reflect helper T cell levels (e.g., HIV monitoring)
- 'CD8+ T cells': indicate cytotoxic immune activity (e.g., cancer response)
- 'PD-L1': predicts response to immune checkpoint inhibitors
- 'IL-6': pro-inflammatory cytokine elevated in systemic inflammation
- 'CRP': general marker of inflammation

Categories

- Cell surface markers (e.g., CD3, CD4, CD8)
- Soluble proteins (e.g., cytokines, chemokines, antibodies)
- Gene expression profiles (e.g., IFN- γ response signatures)
- Functional assays (e.g., lymphocyte activation tests)

Relevance

Immune biomarkers are essential in:

- Identifying immune-related diseases
- Stratifying patients for treatment (e.g., immunotherapy)
- Monitoring therapeutic response or disease progression

See also: [immune_biomarker_distribution](#) | [spatial_distribution](#) | [pd-l1](#) | [cd8](#)

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