

Monoclonal Antibody G28-8 Targeting RP105/CD180

Biomaterial – Antibody

Biomaterial Description

G28-8 is a mouse-derived monoclonal antibody that specifically binds to the extracellular domain of RP105/CD180, a Toll-like receptor (TLR) homolog expressed on human B cells, monocytes, and dendritic cells. This antibody enables precise detection and modulation of RP105-mediated signaling pathways, which are implicated in B-cell activation, innate immune responses, and NF-κB regulation. G28-8 is validated for flow cytometry, immunoprecipitation, and functional assays, and is available in unconjugated and fluorophore-conjugated formats.

Applications

- Flow Cytometry: Surface staining of human B cells and monocytes for immunophenotyping and activation profiling
- Immunoprecipitation: Isolation of RP105/CD180 complexes for downstream signaling analysis
- Functional Assays: Investigation of RP105's role in TLR-like signaling and B-cell survival
- Therapeutic Development: Potential use in immunomodulatory research and vaccine adjuvant screening

Advantages

- High Specificity: Selectively binds extracellular RP105/CD180 with minimal cross-reactivity
- Low Endotoxin Formulations: Suitable for sensitive in vitro and in vivo applications
- Immunological Insight: Enables dissection of RP105's role in innate and adaptive immunity

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Category

Research Tools/Biological
Materials/Antibody

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