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CD24
Catalog # PVGS1900

Specification

CD24 - Product Information

Primary Accession P25063
Species
Human

Sequence
Ser27-Gly59

Purity
> 95% as determined by Bis-Tris PAGE
 > 95% as determined by HPLC

Endotoxin Level
Less than 1EU per μg by the LAL method.

Biological Activity
Measured by its binding ability in a functional ELISA. Immobilized CD24 hFc Chimera, Human at 0.5 μg/ml (100 μl/well) on the plate can bind Biotinylated Anti-CD24 Antibody, hFc Tag. Test result was comparable to standard batch.

Expression System
HEK293

Theoretical Molecular Weight
29.9 kDa

Formulation **Lyophilized from a 0.22 μm filtered solution in PBS, (pH 7.4).**

Reconstitution
Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.

Storage & Stability
Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

CD24 - Additional Information

Gene ID 100133941

Other Names
Signal transducer CD24, Small cell lung carcinoma cluster 4 antigen, CD24, CD24, CD24A

Target Background
CD24 is a sialoglycoprotein expressed at the surface of most B lymphocytes and differentiating

neuroblasts. It is also expressed on neutrophils and neutrophil precursors from the myelocyte stage onwards. The potential for targeting CD24 in cancer therapy seems promising, as CD24 is overexpressed in many human cancers.

CD24 - Protein Information

Name CD24

Synonyms CD24A

Function
May have a pivotal role in cell differentiation of different cell types. Signaling could be triggered by the binding of a lectin- like ligand to the CD24 carbohydrates, and transduced by the release of second messengers derived from the GPI-anchor. Modulates B-cell activation responses. Promotes AG-dependent proliferation of B-cells, and prevents their terminal differentiation into antibody-forming cells (PubMed:11313396). In association with SIGLEC10 may be involved in the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70 and HSP90. Plays a role in the control of autoimmunity (By similarity).

Cellular Location
Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Location
B-cells. Expressed in a number of B-cell lines including P32/ISH and Namalwa. Expressed in erythroleukemia cell and small cell lung carcinoma cell lines. Also expressed on the surface of T-cells.

CD24 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD24 - Images