

Recombinant Human CD24 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50150

Size: 10ug, 100ug

Protein Name: Signal transducer CD24 (Small cell lung carcinoma cluster 4 antigen) (CD antigen CD24)

Synonym: CD24, CD24A

UniProt ID: P25063

UniProt Link: www.uniprot.org/uniprotkb/P25063/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 80 AA

Molecular Weight: 8 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGRAMVARLGLGLLLLALLLPTQIYSSETTTGTSSNSSQSTSNSGLAPNPTNATTKAAGGALQSTAS
LFVVSLSLLHLYS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Signal transducer CD24 (Small cell lung carcinoma cluster 4 antigen) (CD antigen CD24) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein 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).

Subcellular Localization: Cell membrane; Lipid-anchor, GPI-anchor.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.