

## CD24 Protein (Primary Amine Labeling), Human, Recombinant (mFc), Biotinylated

### General Information

Synonyms:	CD 24;CD24A;FLJ43543;CD24 molecule;MGC75043;FLJ22950
Protein Construction:	Ser27-Gly59
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P25063-1
Molecular Weight:	29.5 kDa (predicted). Due to glycosylation, the protein migrates to 48-58 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Anti-CD24 Antibody at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human CD24, mFc Tag with the EC50 of 0.83µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

### Reference

Barkal AA, et al. CD24 signalling through macrophage Siglec-10 is a target for cancer immunotherapy. Nature. 2019 Jul 3 doi: 10.1038/s41586-019-1456-0.

Sun F, et al. Engineering a high-affinity humanized anti-CD24 antibody to target hepatocellular carcinoma by a novel CDR grafting design[J]. Oncotarget, 2017, 8(31):51238-51252.

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