

## CD24 Protein, Human (Biotinylated, HEK293, Fc)

Cat. No.:	HY-P78088
Synonyms:	CD 24; CD24 molecule; CD24A; FLJ22950; FLJ43543; MGC75043
Species:	Human
Source:	HEK293
Accession:	P25063 (S27-G59)
Gene ID:	100133941
Molecular Weight:	48-58 kDa

### PROPERTIES

Biological Activity	Immobilized Anti-CD24 Antibody at 2 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Biotinylated Human CD24, mFc Tag with the EC <sub>50</sub> of 0.83 $\mu$ g/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The CD24 protein is implicated in playing a pivotal role in the cell differentiation of various cell types, with its signaling potentially triggered by the binding of a lectin-like ligand to CD24 carbohydrates, transduced through the release of second messengers derived from the GPI-anchor. CD24 also functions in modulating B-cell activation responses, promoting AG-dependent proliferation of B-cells, and preventing their terminal differentiation into antibody-forming cells. In association with SIGLEC10, CD24 may contribute to the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70, and HSP90, suggesting a role in immune regulation. Additionally, CD24 is implicated in the control of autoimmunity. It exhibits cell-type-specific interactions with LYN and FGR, binding to FRG in a small cell cancer line, LYN in the erythroleukemia cell line K-562, and in Burkitt's lymphoma, highlighting its diverse involvement in cellular processes and immune regulation.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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