

## CD24 Protein, Human (S44T, HEK293, Fc)

Cat. No.:	HY-P70720
Synonyms:	Signal transducer CD24; Small cell lung carcinoma cluster 4 antigen; CD24; CD24A
Species:	Human
Source:	HEK293
Accession:	P25063 (S27-G59, S44T)
Gene ID:	100133941
Molecular Weight:	40-55 kDa

### PROPERTIES

AA Sequence	S E T T T G T S S N    S S Q S T S N T G L    A P N P T N A T T K    A A G
Biological Activity	Immobilized Anti-Human CD24 mAb at 2 µg/mL (100 µl/well) can bind Human CD24 (S44T)-Fc*: Biotinylated by NHS-biotin prior to testing The ED <sub>50</sub> of Human CD24 (S44T)-Fc* is <26.45 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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
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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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