

## CD24 Protein, Mouse (27a.a, HEK293, Fc)

Cat. No.:	HY-P72747
Synonyms:	Signal transducer CD24; Ly-52; HAS; Nectadrin; R13-Ag; CD24; CD24A
Species:	Mouse
Source:	HEK293
Accession:	P24807 (N27-G53)
Gene ID:	12484
Molecular Weight:	39-56 kDa

### PROPERTIES

AA Sequence	N Q T S V A P F P G    N Q N I S A S P N P    S N A T T R G
Biological Activity	Immobilized Mouse CD24 at 10 µg/mL (100 µL/well) can bind Anti-CD24 Antibody, The ED <sub>50</sub> for this effect is 0.1823 µg/mL, corresponding to a specific activity is 5.485×10 <sup>3</sup> units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, 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	CD24 Protein is postulated to play a pivotal role in the cell differentiation processes of various cell types, with a specific implication in early thymocyte development. Its signaling potential is suggested to be triggered by the binding of a lectin-like ligand to the CD24 carbohydrates, transduced through the release of second messengers derived from the GPI-anchor. Additionally, CD24 is implicated in modulating B-cell activation responses, indicative of its regulatory influence in immune processes. In conjunction with SIGLEC10, CD24 may participate in the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70, and HSP90. This CD24:SIGLEC10 complex is proposed to inhibit HMGB1-mediated tissue damage immune responses, suggesting CD24's role in immune regulation and control of autoimmunity. The multifaceted functions of CD24 underscore its potential as a key player in diverse cellular and
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immune processes.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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