

CD24 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P74318
Synonyms:	Signal transducer CD24; CD24; CD24A
Species:	Rat
Source:	HEK293
Accession:	Q07490 (N27-C55)
Gene ID:	25145
Molecular Weight:	Approximately 45-57 kDa due to the glycosylation.

PROPERTIES

AA Sequence	N Q T S V A P F S G N Q S I S A A P N P T N A T T R S G C
Biological Activity	When Recombinant Rat CD24 Protein is immobilized at 2 µg/mL (100 µL/well) can bind Anti-CD24 antibody, The ED ₅₀ for this effect is 2.235 µg/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 ₂ 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	<p>The CD24 protein appears to play a pivotal role in the cell differentiation of various cell types, with signaling potentially initiated by the binding of a lectin-like ligand to CD24 carbohydrates. This signal is transduced through the release of second messengers derived from the GPI-anchor. Additionally, CD24 is involved in modulating B-cell activation responses and, in association with SIGLEC10, may contribute to the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) like HMGB1, HSP70, and HSP90. These findings suggest a multifaceted role for CD24, encompassing its influence on cell differentiation, immune response regulation, and potential contributions to the control of autoimmunity. Further exploration into the specific mechanisms underlying these functions could provide valuable insights into the diverse roles played by CD24 in cellular processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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