

CD44 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74291
Synonyms:	CD44 antigen; CDw44; Epican; ECMR-III; CD44; LHR; MDU2
Species:	Mouse
Source:	HEK293
Accession:	NP_001034240.1 (Q25-T224)
Gene ID:	12505
Molecular Weight:	Approximately 37 kDa

PROPERTIES

AA Sequence	<p> Q I D L N V T C R Y A G V F H V E K N G R Y S I S R T E A A D L C Q A F N S T L P T M D Q M K L A L S K G F E T C R Y G F I E G N V V I P R I H P N A I C A A N H T G V Y I L V T S N T S H Y D T Y C F N A S A P P E E D C T S V T D L P N S F D G P V T I T I V N R D G T R Y S K K G E Y R T H Q E D I D A S N I I D D D V S S G S T I E K S T P E S Y I L H T Y L P T E Q P T G D Q D D S F F I R S T L A T </p>
Biological Activity	Measured by its binding ability in a functional ELISA. When rmCD44 is present at 1 µg/mL, the concentration of biotinylated hyaluronan that produces 50% of the optimal binding response is found to be approximately 17.45 ng/mL.
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 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	CD44 Protein plays a multifaceted role by enabling hyaluronic acid binding activity and type II transforming growth factor beta receptor binding activity, contributing to cytokine binding activity and cytokine receptor activity. Engaged in processes such as negative regulation of T cell activation, positive regulation of protein phosphorylation, and the regulation of intracellular signal transduction, CD44 acts upstream of or within critical processes like the Wnt signaling pathway,
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morphogenesis of a branching epithelium, and wound healing involved in inflammatory response. The protein is strategically located in the basolateral plasma membrane, external side of the plasma membrane, and microvillus, and it is a component of the macrophage migration inhibitory factor receptor complex. CD44 exhibits broad expression across various structures, including the alimentary system, branchial arch, central nervous system, genitourinary system, and limb. Implicated in diseases such as breast carcinoma, carcinoma, and prostate cancer, CD44 demonstrates broad expression in lung adult (RPKM 13.1), spleen adult (RPKM 8.5), and 23 other tissues, emphasizing its pivotal roles in diverse physiological processes and potential contributions to cancer pathogenesis.

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

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