

L1CAM

Recombinant Human CD171 / NCAM-L1 (His Tag)

Catalog No.	CRH396A-His CRH396B-His	Quantity:	100 µg 200 µg
Alternate Names:	Neural cell adhesion molecule L1, N-CAM-L1		
Description:	Neural cell adhesion molecule L1, also designated as CD171, is a cell adhesion receptor of the immunoglobulin superfamily, known for its roles in nerve cell function. While originally believed to be present only in brain cells, in recent years NCAM-L1 has been detected in other tissues, and in a variety of cancer cells, including some common types of human cancer. NCAM-L1 interacts with a variety of ligands including axonin-1, CD9, neurocan and integrins, and it has been revealed that the RGD motif in the sixth Ig domain of NCAM-L1 is a binding site for integrins, thus important for nuclear signaling. Disruption of NCAM-L1 function causes three X-linked neurological syndromes, i.e. hydrocephalus, MASA syndrome (mental retardation, aphasia, shuffling gait and adducted thumbs) and spastic paraplegia syndrome. Overexpression of NCAM-L1 in normal and cancer cells increased motility, enhanced growth rate and promoted cell transformation and tumorigenicity. Recent work has identified NCAM-L1 as a novel marker for human carcinoma progression, and a candidate for anti-cancer therapy.		
UniProt ID:	P32004		
Accession Number:	NP_000416.1		
Protein Construction:	A DNA sequence encoding the extracellular domain of human CD171 (NP_000416.1) (Met 1-Glu 1120) was fused with a polyhistidine tag at the C-terminus.		
Source:	HEK293 Cells		
Molecular Weight:	The rhCD171 consists of 1112 aa after removal of the signal peptide and predicts a Mr of 125 kDa. As a result of glycosylation, the apparent Mr of rhCD171 is ~160-200 kDa band in SDS-PAGE under reducing conditions.		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Purity:	> 85 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Ile 20		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		



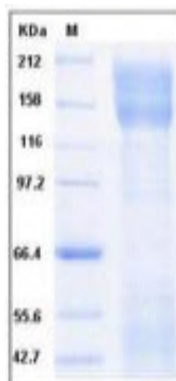
Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C

After reconstitution, store working aliquots at -20°C to -80°C.

Avoid repeated freeze-thaw cycles.

SDS-PAGE



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