

Active Recombinant Full Length Human CD81 Protein, C-Flag-tagged

Cat. No. CD81-13HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CD81 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. This protein appears to promote muscle cell fusion and support myotube maintenance. Also it may be involved in signal transduction. This gene is localized in the tumor-suppressor gene region and thus it is a candidate gene for malignancies. Two transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	ELISA standard
Molecular Mass	25.6 kDa

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AA Sequence	MGVEGCTKCIKYLLFVFNFWLGGVILGVALWLRHDPQTTNLLYLELGDKPAPNT FYVGIYILIAVGA VMMFVGFLGCGYGAIQESQCLLGTTFTCLVILFACEVAAGIWGFVN KDQIAKDVKQFYDQALQQAVVDDDA NNAKAVVKTFHETLDCCGSSTLTALTTSVLK NNLCPSGSNIISNLFKEDCHQKIDDLFSGKLYLIGIAAI VVAVIMIFEMILSMVLCCGIRNSSVYTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways	B cell receptor signaling pathway
Full Length	Full L.

GENE INFORMATION

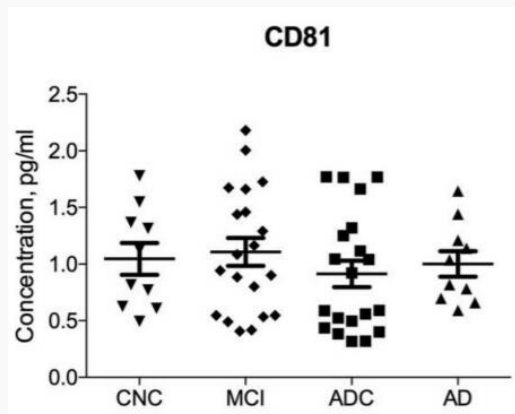
Gene Name	CD81 CD81 molecule [Homo sapiens (human)]
Official Symbol	CD81
Synonyms	S5.7; CVID6; TAPA1; TSPAN28

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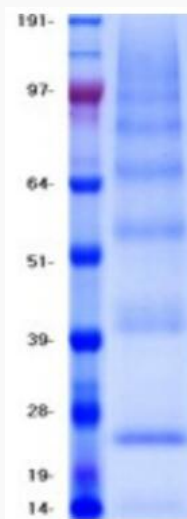
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Gene ID	975
mRNA Refseq	NM_004356.4
Protein Refseq	NP_004347.1
MIM	186845
UniProt ID	P60033



Plasma neuronal-derived exosome levels of CD81, measured by ELISA using recombinant CD81 as the standard, were not statistically different among cognitively normal controls (CNC), mild cognitive impairment (MCI), MCI converting to AD (ADC), and Alzheimer's disease patients (AD).



Coomassie blue staining of purified CD81 protein.

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