

Product datasheet for **TP317508M**

TAPA1 (CD81) (NM_004356) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human CD81 molecule (CD81), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC217508 representing NM_004356
Red=Cloning site **Green**=Tags(s)

MGVEGCTKCIKYLFFVFNFWLGGVILGVALWLRHDPQTTNLLYLELGDKPAPNTFFVGIYILIAVGA
VMMFVGFLGCGYAIQESQCLLGTFFTCVLVIFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQAVDDDA
NNAKAVKTFHETLDCCGSSTLTALTTSVLKNNLCPSGSNIISNLFKEDCHQKIDDLFSGKLYLIGIAAI
VVAVIMIFEMILSMVLCCGIRNSSVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 25.6 kDa

Concentration: >0.1 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Bioactivity: ELISA standard (PMID: [27408937](#))
ELISA standard (PMID: [27511944](#))
ELISA standard (PMID: [27601437](#))
ELISA standard (PMID: [28105773](#))

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



[View online »](#)

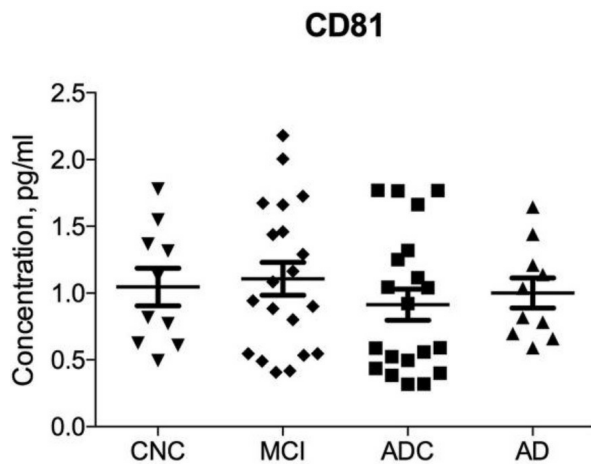
RefSeq: [NP_004347](#)
Locus ID: 975
UniProt ID: [P60033](#), [A0A024RCB7](#)
RefSeq Size: 1497
Cytogenetics: 11p15.5
RefSeq ORF: 708
Synonyms: CVID6; S5.7; TAPA1; TSPAN28

Summary: 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. [provided by RefSeq, Jul 2014]

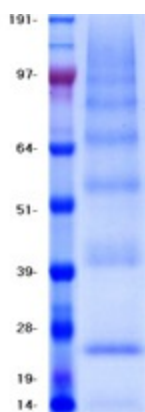
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: B cell receptor signaling pathway

Product images:



Plasma neuronal-derived exosome levels of CD81, measured by ELISA using recombinant CD81 (OriGene [TP317508]) 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). Figure cited from *Alzheimers Dement (Amst)*, PMID: 27408937



Coomassie blue staining of purified CD81 protein (Cat# [TP317508]). The protein was produced from HEK293T cells transfected with CD81 cDNA clone (Cat# [RC217508]) using MegaTran 2.0 (Cat# [TT210002]).