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Product datasheet for TP721361

SECTM1 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Biotinylated Human SECTM1 Protein (C-His-Avi)
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	Gln29-Gly145
Tag:	C-His-Avi
Predicted MW:	The protein has a predicted molecular weight of 16kDa and migrates at approximately 20kDa on SDS-PAGE with DTT-reduced condition.
Concentration:	25μg size is bottled at 0.2mg/mL concentration. 100 μg size is bottled at lot specific concentration.
Purity:	>90%
Conjugation:	Biotin
Buffer:	1xPBS buffer, pH7.4
Bioactivity:	Positive The definition of the active protein (purified and biotinylated) is defined as the protein that can bind to its biological receptor/ligand. For conjugated protein, it is defined with its function to bind to the ScFv of the active CAR-transfected cells in flow cytometry test.
Preparation:	Affinity Ni-NTA
Applications:	ELISA
Storage:	An unopened vial can be stored at 4°C for 2 weeks or at -20°C and below for six months. This stock solution should be aliquoted and stored at ≤ -70°C to minimize the freeze/thaw cycles.
Stability:	6 Months
RefSeq:	Q8WVN6
Locus ID:	6398
UniProt ID:	Q8WVN6

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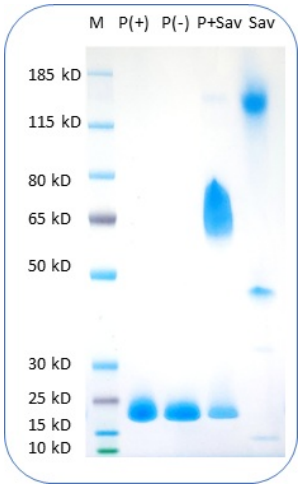
Summary: Human SECTM1 (secreted and transmembrance 1) is a type I transmembrane glycoprotein consisted of a 28 aa signal sequence, a 117 aa extracellular domain (ECD) with one potential N-linked glycosylation site, a 21 aa transmembrane sequence, and an 82 aa cytoplasmic sequence. It is localized in the Golgi apparatus and exists as a transmembrane and a soluble form. SECTM1 protein expression is detected in some myeloid cells, such as stimulated monocytes, immature monocyte-derived dendritic cells, and granulocytes. In the thymus, it is also expressed by epithelia and fibroblasts. Its expression is stimulated by IFN-gamma. Although its function is not well understood, the soluble N-terminus form of human SECTM1 demonstrates that it is a costimulatory ligand for human CD4 and CD8 T cell proliferation and cytokine production in CD7-dependent manner.

Product images:



Biotinylated Human SECTM1 Protein (C-His-Avi) on SDS-PAGE under reducing condition P(+) and non-reducing condition P(-). The purity of this protein appears to be greater than 95% based on Coomassie-blue staining.