Datasheet for ABIN2870528

VTCN1 Protein (AA 29-258) (His tag,Biotin)

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2 Images

Overview

Quantity:	200 µg
Target:	VTCN1
Protein Characteristics:	AA 29-258
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This VTCN1 protein is labelled with His tag,Biotin.

Product Details

Brand:	MABSol®,UltraLys
Sequence:	AA 29-258
Specificity:	The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 26.1 kDa. The protein migrates as 43-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

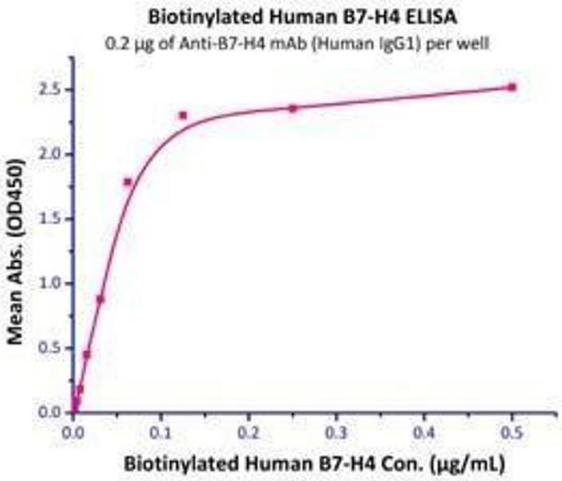
Target:	VTCN1
Alternative Name:	B7-H4 (VTCN1 Products)
Background:	V-set domain-containing T-cell activation inhibitor 1 (VTCN1) is also known as Immune costimulatory protein B7-H4, Protein B7S1, T-cell costimulatory molecule B7x, B7H4, which belongs to the immunoglobulin superfamily and BTN/MOG family. VTCN1 contains two Ig-like V-type (immunoglobulin-like) domains. The expression of VTCN1 is up-regulated by IL6 and IL10 and is inhibited by GM-CSF and IL4 on antigen-presenting cells (APCs). VTCN1 / B7-H4 negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. VTCN1 involved in promoting epithelial cell transformation.
Molecular Weight:	26.4 kDa
NCBI Accession:	NP_078902

Application Details

Comment:	A chemically labeled biotinylated protein with ultra sensitivity. The product is produced using a chemical labeling approach. The primary amines in the side chains of lysine residues and the N-terminus of protein are conjugated with biotins. Chemical labeling usually results in multiple biotin attachment on a single protein molecule, which could potentially lead to higher detection sensitivity.
Restrictions:	For Research Use only

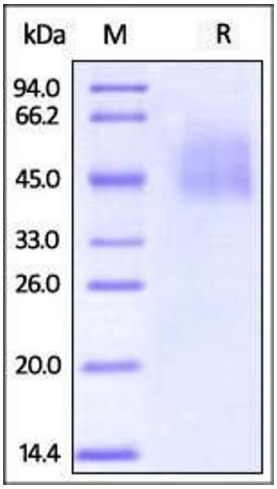
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



Binding Studies

Image 1. Immobilized anti-B7-H4 mAb (Human IgG1) at 2 µ g/mL can bind Biotinylated Human B7-H4 with a linear range of 4-62 ng/mL.



SDS-PAGE

Image 2. Biotinylated Human B7-H4 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.