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## Datasheet for ABIN7194910 CD6 Protein (CD6) (His tag)

Image



#### Overview

Quantity:	100 µg
Target:	CD6
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD6 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Mouse CD6/TP120 Protein (His Tag)(Active)			
Sequence:	Met 1-Gly396			
Characteristics:	A DNA sequence encoding the extracellular domain of mouse CD6 (Q91WN5) (Met 1-Gly396) was expressed with a C-terminal polyhistidine tag.			
Purity:	> 90 % as determined by SDS-PAGE			
Endotoxin Level:	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.			
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When 8 x 104 cells/well are added to mCD6-His coated plates (5 $\mu$ g/mL, 100 $\mu$ L/well), approximately more than 15% of cells will adhere after 60 minutes at 37°C.			

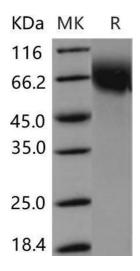
#### Target Details

Target:	CD6			
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Target Details			
Alternative Name:	CD6/TP120 (CD6 Products)		
Background:	Background: T-cell differentiation antigen CD6, also known as TP120 and CD6, is a single-pass		
	type I membrane protein which contains three SRCR domains. CD6 / TP120 is a cell surface		
	glycoprotein expressed primarily on T cells, it may function as a costimulatory molecule and		
	may play a role in autoreactive immune responses. CD6 / TP120 is expressed by thymocytes,		
	mature T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain. CD6		
	ligand termed CD166 (previously known as activated leukocyte cell adhesion molecule, ALCAM		
	) has been identified and shown to be expressed on activated T cells, B cells, thymic epithelium,		
	keratinocytes, and in rheumatoid arthritis synovial tissue. CD6 / TP120 binds to activated		
	leukocyte cell adhesion molecule ( CD166 ), and is considered as a costimulatory molecule		
	involved in lymphocyte activation and thymocyte development. CD6 / TP120 partially		
	associates with the TCR / CD3 complex and colocalizes with it at the center of the mature		
	immunological synapse (IS) on T lymphocytes. During thymic development CD6-dependent		
	signals may contribute both to thymocyte survival, and to the overall functional avidity of		
	selection in both man and mouse.		
	Synonym: CD6 antigen; Cd6		
Molecular Weight:	42.6 kDa		
UniProt:	Q91WN5		
Application Details			
Restrictions:	For Research Use only		
Handling			
Format:	Lyophilized		
Reconstitution:	Please refer to the printed manual for detailed information.		
Buffer:	Lyophilized from sterile PBS, pH 7.4		
Storage:	4 °C,-20 °C,-80 °C		
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.		
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted		
	samples are stable at < -20°C for 3 months.		

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Image 1.

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