

## CD226

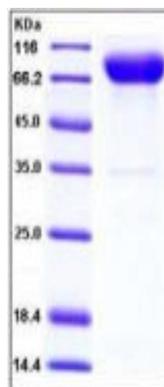
### Recombinant Human CD226 / DNAM-1 (His & Fc Tag)

<b>Catalog No.</b>	CRH512A-HisFc CRH512B-HisFc	<b>Quantity:</b>	50 µg 100 µg
<b>Alternate Names:</b>	CD226 antigen, DNAX accessory molecule 1, DNAM-1, CD226		
<b>Description:</b>	<p>The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 32 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD226, also known as DNAM-1, is a member of the immunoglobulin superfamily containing 2 Ig-like domains of the V-set. High rate of CD226 (Cluster of Differentiation 226) is found on the surface of natural killer cells, platelets, monocytes and a subset of T cells. CD226 have binding sites with CD112 and CD155 and mediate cellular adhesion to other cells containing its ligands.</p>		
<b>UniProt ID:</b>	Q15762		
<b>Accession Number:</b>	NP_006557.2		
<b>Protein Construction:</b>	A DNA sequence encoding the human DNAM1 extracellular domain (Met 1-Asn 247) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.		
<b>Source:</b>	HEK293 Cells		
<b>Formulation:</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The recombinant human DNAM1/Fc is a disulfide-linked homodimer. The reduced monomer consists of 477 amino acids and has a predicted molecular mass of 54 kDa. As a result of glycosylation, the apparent molecular mass of rh DNAM1/Fc monomer is approximately 80-90 kDa in SDS-PAGE under reducing conditions.		
<b>Purity:</b>	> 95 % as determined by SDS-PAGE.		
<b>Endotoxin Level:</b>	< 1.0 EU per µg of the protein as determined by the LAL method		
<b>Biological Activity:</b>	<p>Measured by its binding ability in a functional ELISA.</p> <ol style="list-style-type: none"> <li>1. Immobilized CD112-his at 20 µg/ml (100 µl/well) can bind biotinylated DNAM1 with a linear range of 0.078-2.5 µg/ml.</li> <li>2. Immobilized CD112-Fc at 20 µg/ml (100 µl/well) can bind biotinylated DNAM1 with a linear range of 0.078-5 µg/ml.</li> <li>3. Immobilized human CD155 at 20 µg/ml (100 µl/well) can bind human DNAM1 Fc chimera with a linear ranger of 1.28-160 ng/ml.</li> </ol>		
<b>Predicted N-terminal:</b>	Glu 19		



- Reconstitution:**                    **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.
- Storage & Stability:**                Stable for up to 1 year from date of receipt at -20°C to -80°C  
After reconstitution, store working aliquots at -20°C to -80°C.  
**Avoid repeated freeze-thaw cycles.**

SDS-PAGE



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