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Datasheet for ABIN7320378

## CD1d Protein (His tag)

### 1 Image

#### Overview

Quantity:	100 µg
Target:	CD1d (CD1D)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD1d protein is labelled with His tag.

#### Product Details

Purpose:	Recombinant Mouse CD1D/R3G1 Protein (His Tag)
Sequence:	Met 1-Gly 305
Characteristics:	A DNA sequence encoding the extracellular domain of mouse CD1D (NP_031665.2) (Met 1-Gly 305) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

#### Target Details

Target:	CD1d (CD1D)
Alternative Name:	CD1D/R3G1 ( <a href="#">CD1D Products</a> )
Background:	Background: 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

## Target Details

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more than 320 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. Cluster of differentiation 1 (CD1) is a member of CD system. It's a family of glycoproteins expressed on the surface of various human antigen- presenting cells which are implicated in the presentation of lipid antigens to T-cells. Due to the different lipid anchoring, the CD1 family is classified into two groups: group1 (CD1a-c) and group2 (CD1d). CD1d with lipid antigens activate NK T-cells which rapidly produce Th1 and Th2 cytokines after been activated.

Synonym: AI747460,CD1.1,Cd1a,Cd1d,Ly-38

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Molecular Weight: 33.7 kDa

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NCBI Accession: [NP\\_031665](#)

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Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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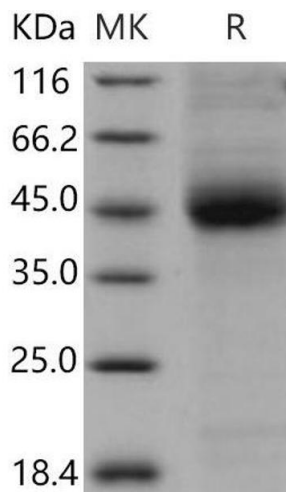
Buffer: Lyophilized from sterile PBS, pH 7.4

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Storage: 4 °C,-20 °C,-80 °C

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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.



**Western Blotting**

**Image 1.**