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Datasheet for ABIN7273782

## 2B4 Protein (AA 22-221) (His-Avi Tag,Biotin)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	2B4 (CD244)
Protein Characteristics:	AA 22-221
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This 2B4 protein is labelled with His-Avi Tag,Biotin.

#### Product Details

Purpose:	Biotinylated Human 2B4/CD244/SLAMF4 Protein
Sequence:	Cys22-Arg221
Characteristics:	Recombinant Biotinylated Human 2B4/CD244/SLAMF4 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Cys22-Arg221.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Biotinylated Human 2B4, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human CD48, hFc Tag with the Ec50 of 7.2ng/ml determined by ELISA. See testing image for detail.

## Target Details

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Target:	2B4 (CD244)
Alternative Name:	2B4 ( <a href="#">CD244 Products</a> )
Background:	2B4 (CD244) is expressed by memory-phenotype CD8(+) T cells and all natural killer (NK) cells. The ligand for 2B4, CD48, is expressed on hematopoietic cells. 2B4 is conserved in humans and mice, and a number of reports have linked 2B4 with activation of lymphocytes. Engagement of 2B4 on NK cell surfaces with specific antibodies or CD48 can trigger cell mediated cytotoxicity, interferon $\gamma$ secretion, phosphoinositol turnover and NK cell invasiveness.
Molecular Weight:	24.9 kDa. Due to glycosylation, the protein migrates to 48-70 kDa based on Tris-Bis PAGE result.

## Application Details

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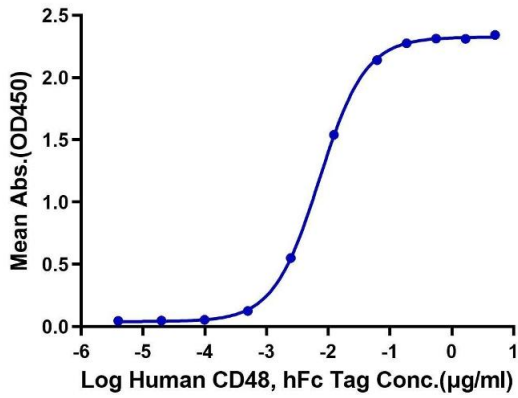
Restrictions:	For Research Use only
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## Handling

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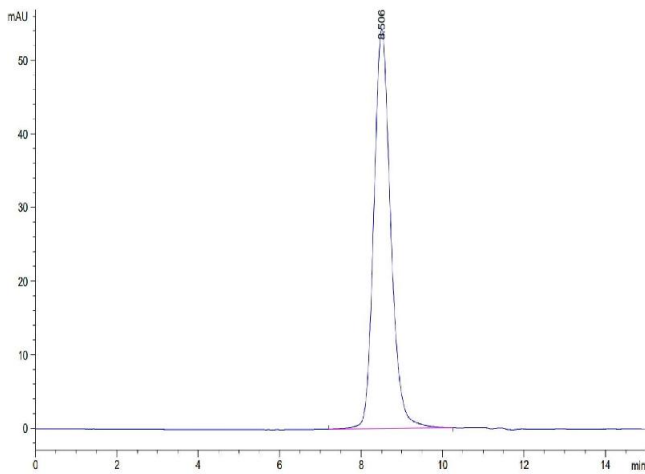
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{mL}$ is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 $^{\circ}\text{C}$ , -80 $^{\circ}\text{C}$
Storage Comment:	-20 to -80 $^{\circ}\text{C}$ for 12 months as supplied from date of receipt., -80 $^{\circ}\text{C}$ for 3-6 months after reconstitution., 2-8 $^{\circ}\text{C}$ for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

**Biotinylated Human 2B4, His Tag ELISA**  
0.05µg Biotinylated Human 2B4, His Tag Per Well



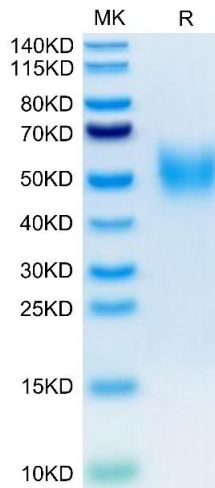
**ELISA**

**Image 1.** Immobilized Biotinylated Human 2B4, His Tag at 0.5 µg/mL (100 µL/well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Human CD48, hFc Tag with the Ec50 of 7.2 ng/mL determined by ELISA.



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 2.** The purity of Biotinylated Human 2B4/SLAMF4 is greater than 95 % as determined by SEC-HPLC.



**SDS-PAGE**

**Image 3.** Biotinylated Human 2B4/SLAMF4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.