

# Biotinylated Human 2B4/CD244/SLAMF4 Protein

Cat. No. 2B4-HM401B

Description	
Source	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.
Accession	Q9BZW8-2
Molecular Weight	The protein has a predicted MW of 24.9 kDa. Due to glycosylation, the protein migrates to 48-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

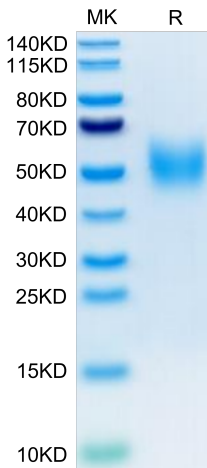
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

**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 γ secretion, phosphoinositol turnover and NK cell invasiveness.

## Assay Data

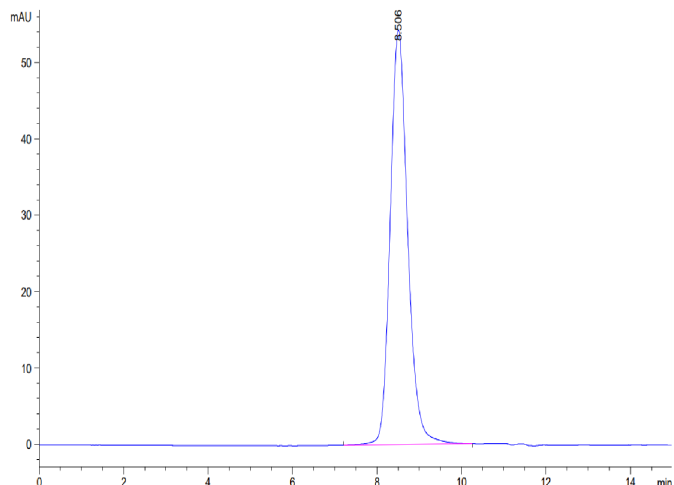
### Tris-Bis PAGE



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

### SEC-HPLC

Assay Data

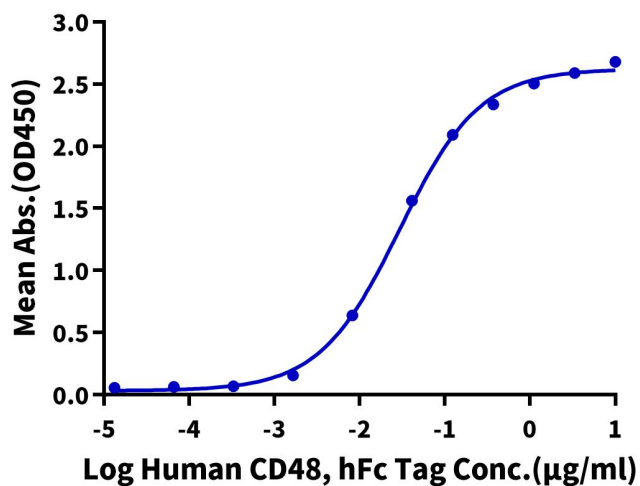


The purity of Biotinylated Human 2B4 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human 2B4, His Tag ELISA**

0.05µg Biotinylated Human 2B4, His Tag Per Well



Immobilized Biotinylated Human 2B4, His Tag at 0.5µg/ml (100µl/well) on the streptavidin pre-coated plate (5µg/ml). Dose response curve for Human CD48, hFc Tag with the EC50 of 29.3ng/ml determined by ELISA.