

Human 2B4/CD244/SLAMF4 Protein



Cat. No. 2B4-HM101

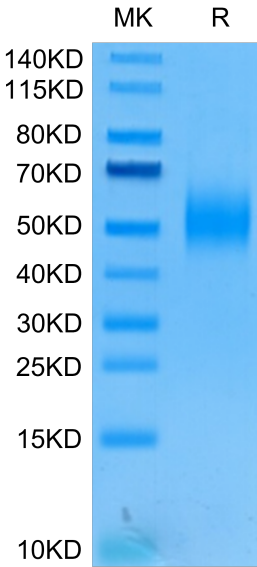
Description	
Source	Recombinant Human 2B4/CD244/SLAMF4 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Cys22-Arg221.
Accession	Q9BZW8-2
Molecular Weight	The protein has a predicted MW of 23.1 kDa. Due to glycosylation, the protein migrates to 45-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 24 months as supplied from date of receipt.-80°C for 3 months 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

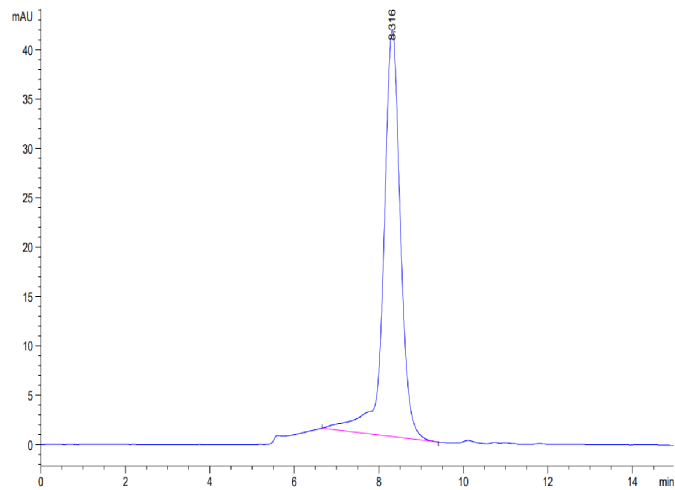
Bis-Tris PAGE



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

SEC-HPLC

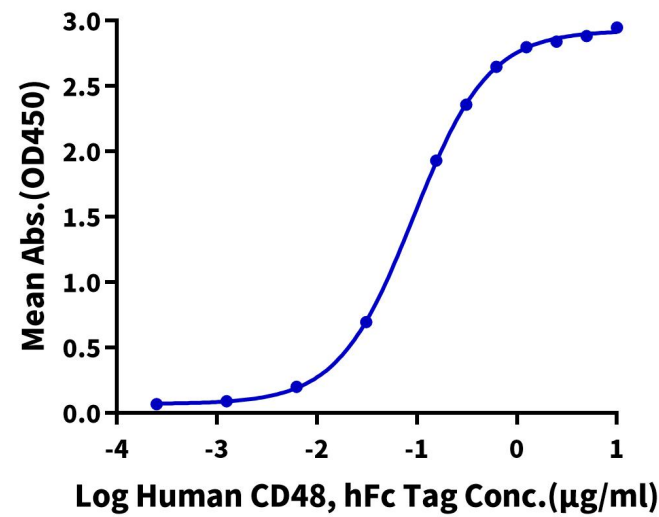
Assay Data



The purity of Human 2B4 is greater than 90% as determined by SEC-HPLC.

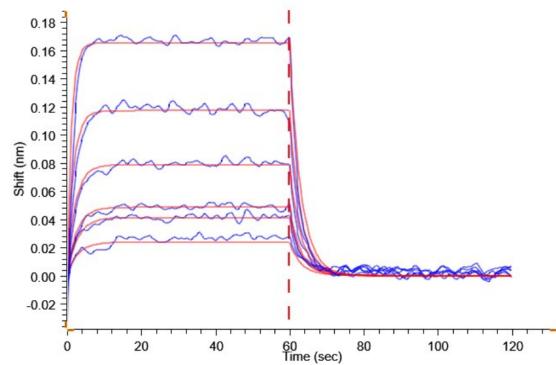
ELISA Data

Human 2B4, His Tag ELISA
0.2µg Human 2B4, His Tag Per Well



Immobilized Human 2B4, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human CD48, hFc Tag with the EC50 of 92.3ng/ml determined by ELISA.

BLI Data



Loaded Human CD48, hFc Tag on ProA-Biosensor can bind Human 2B4, His Tag with an affinity constant of 0.51 µM as determined in BLI assay (Gator® Prime).