Human 2B4/CD244/SLAMF4 Protein, Ultra Low Endotoxin

Cat. No. 2B4-HM101-UL

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 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

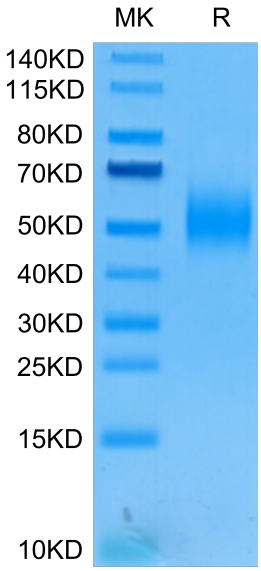
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

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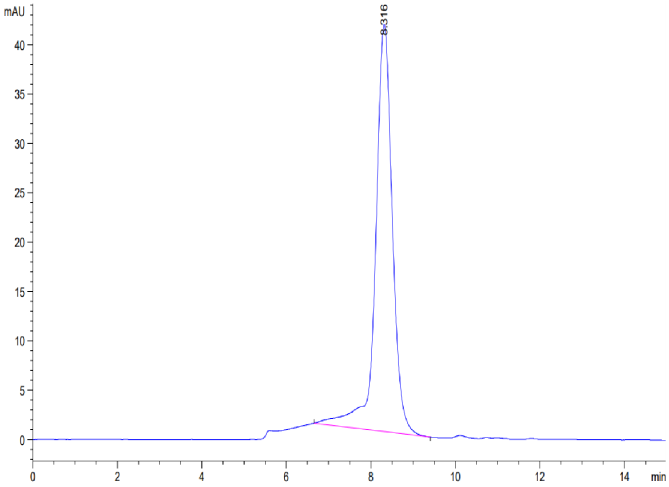
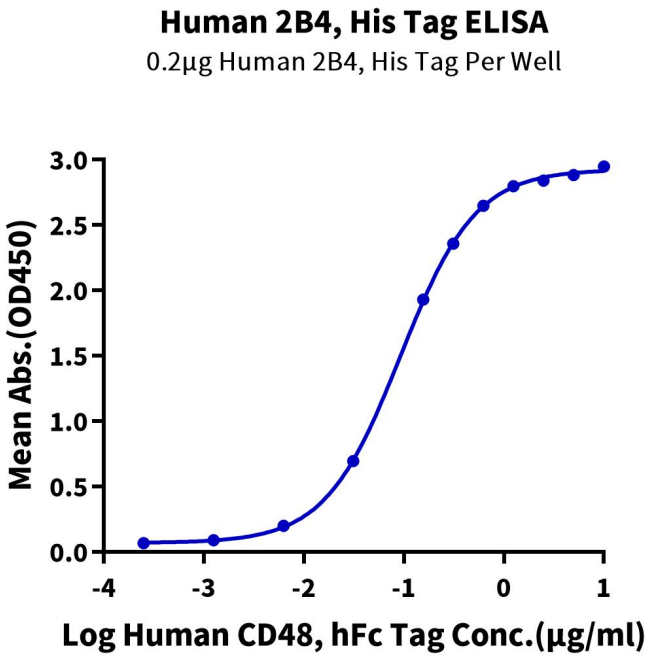
Assay Data



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

ELISA Data



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.