Human 2B4 / CD244 / SLAMF4 Protein, Fc Tag

Catalog # 2B4-H5255

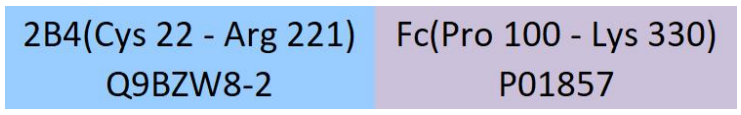
Synonym

CD244,2B4,SLAMF4,NKR2B4,NAIL,h2B4

Source

Human 2B4, Fc Tag(2B4-H5255) is expressed from human 293 cells (HEK293).
It contains AA Cys 22 - Arg 221 (Accession # Q9BZW8-2).
Predicted N-terminus: Cys 22

Molecular Characterization



This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 48.9 kDa. The protein migrates as 60-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

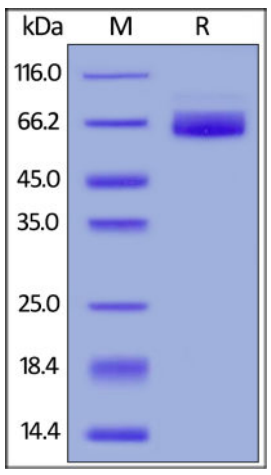
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

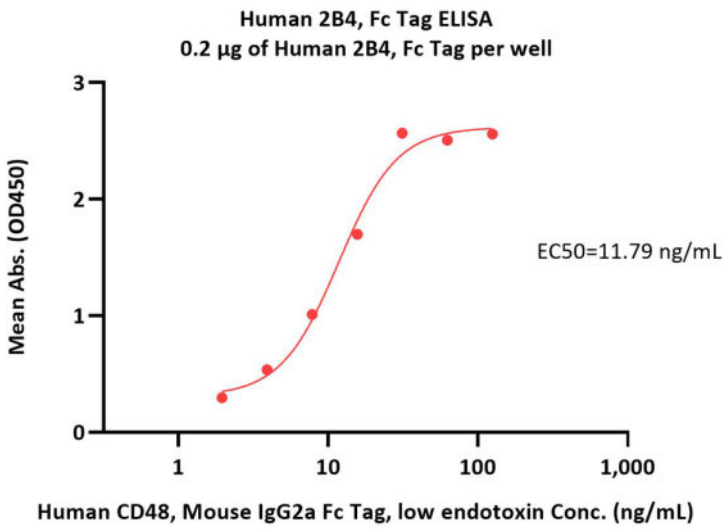
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human 2B4, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Human 2B4, Fc Tag (Cat. No. 2B4-H5255) at 2 μg/mL (100 μL/well) can bind Human CD48, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 2-16 ng/mL (QC tested).

Background

Natural killer cell receptor 2B4 is also known as NK cell type I receptor protein 2B4 (NKR2B4 or h2B4), SLAM family member 4 (SLAMF4), Signaling lymphocytic activation molecule 4, CD antigen CD244. NKR2B4 / CD244 contains two Ig-like (immunoglobulin-like) domains. CD244 is expressed in spleen, PBL, followed by lung, liver, testis and small intestine. CD244 interacts with CD48. Following phosphorylation, CD244 is able to recruit PTPN11/SHP-2 and SH2D1A/SAP. SLAMF4 modulate other receptor-ligand interactions to enhance leukocyte activation. CD244/2B4 is the only heterophilic receptor of SLAM family.