

Active Recombinant Human CD244 protein, Fc & Avi-tagged, Biotinylated

Cat. No. CD244-1825H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Biotinylated Human 2B4, Fc Tag, Avi Tag is expressed from human 293 cells (HEK293). It contains AA Cys 22 - Arg 221 (Accession # NP_057466.1). Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.

Species Human

Source HEK293

ProteinLength AA Cys 22 - Arg 221

Description 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.

Predicted N Terminal Cys 22

Form Lyophilized from 0.22

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	µm filtered solution in 50 mM Tris, 100 mM Glycine, pH 7.5, 10% trehalose.
Bio-activity	Immobilized Human CD48, His Tag at 10 µg/mL (100 µL/well) can bind Biotinylated Human 2B4, Fc Tag with a linear range of 0.16-1.25 µg/mL.
Molecular Mass	This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag. The protein has a calculated MW of 50.7 kDa. As a result of glycosylation, the protein migrates as 65-80 kDa under reducing (R) condition, and 130-160 kDa under non-reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	CD244 CD244 molecule [Homo sapiens (human)]
Official Symbol	CD244
Synonyms	2B4; NAIL; Nmrk; NKR2B4; SLAMF4; CD244 molecule, natural killer cell receptor

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2B4; NK cell activation inducing ligand NAIL; NK cell activation-inducing ligand; NK cell type I receptor protein 2B4; SLAM family member 4; h2B4; signaling lymphocytic activation molecule 4

Gene ID	51744
mRNA Refseq	NM_001166663.1
Protein Refseq	NP_001160135.1
UniProt ID	Q9BZW8

SDS-PAGE



Biotinylated Human 2B4, Fc Tag, Avi Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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