

Datasheet for ABIN5674581

## 2B4 Protein (AA 22-221) (His tag,AVI tag,Biotin)

3 Images



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### Overview

Quantity:	200 µg
Target:	2B4 (CD244)
Protein Characteristics:	AA 22-221
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This 2B4 protein is labelled with His tag,AVI tag,Biotin.

### Product Details

Brand:	PrecisionAvi
Sequence:	AA 22-221
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 25.4 kDa. The protein migrates as 40-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

### Target Details

Target:	2B4 (CD244)
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## Target Details

Alternative Name: 2B4 ([CD244 Products](#))

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.

Molecular Weight: 25.4 kDa

NCBI Accession: [NP\\_057466](#)

## Application Details

Comment: Ready-to-use Avitag<sup>TM</sup> biotinylated protein:

The product is exclusively produced using the Avitag<sup>TM</sup> technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

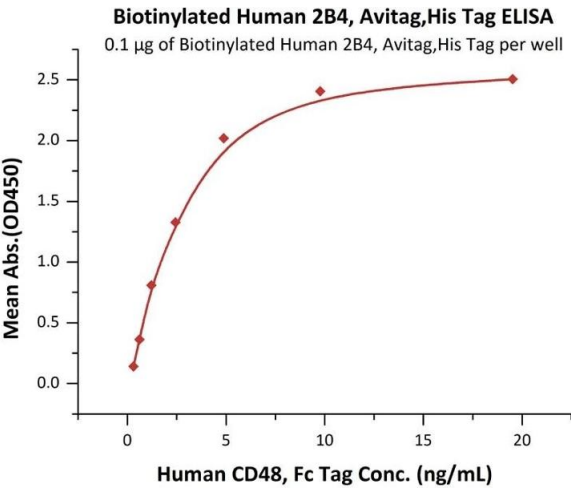
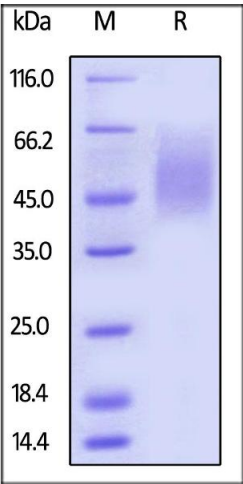
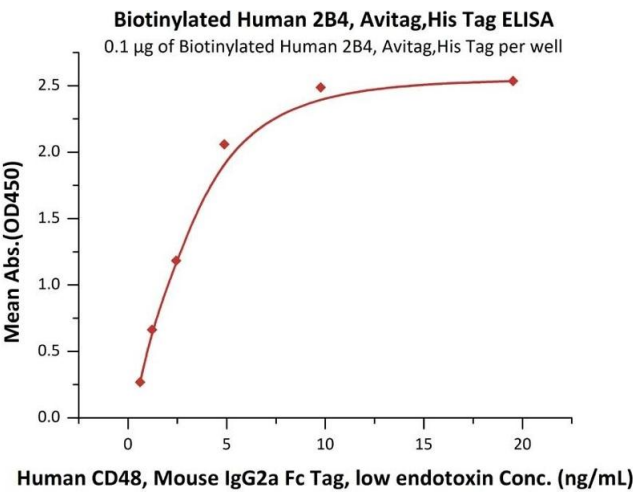
## Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



**ELISA**

**Image 1.** Immobilized Biotinylated Human 2B4, Avitag,His Tag (recommended for biopanning) (ABIN5674581,ABIN6253686) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.2 µg/well) plate, can bind Human CD48, Mouse IgG2a Fc Tag, low endotoxin (ABIN5955000,ABIN6253578) with a linear range of 0.3-5 ng/mL (Routinely tested).

**SDS-PAGE**

**Image 2.** Biotinylated Human 2B4, Avitag,His Tag (recommended for biopanning) on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .

**ELISA**

**Image 3.** Immobilized Biotinylated Human 2B4, Avitag,His Tag (recommended for biopanning) (ABIN5674581,ABIN6253686) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.2 µg/well) plate, can bind Human CD48, Fc Tag (ABIN5674623,ABIN6253683) with a linear range of 0.3-5 ng/mL (QC tested).