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Datasheet for ABIN7320652

2B4 Protein (His tag)

1 Image

Overview

Quantity:	50 µg
Target:	2B4 (CD244)
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This 2B4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse 2B4/CD244 Protein (His Tag)
Sequence:	Gln20-Asn221
Characteristics:	Recombinant Mouse Natural killer cell receptor 2B4 is produced by our Mammalian expression system and the target gene encoding Gln20-Asn221 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	2B4 (CD244)
Alternative Name:	2B4/CD244 (CD244 Products)
Background:	Background: Natural killer cell receptor 2B4 (2B4/CD244) is a 66 kDa type I transmembrane glycoprotein in the SLAM subgroup of the CD2 protein family. SLAM family proteins have an

Target Details

extracellular domain (ECD) with two or four Ig-like domains and at least two cytoplasmic immunoreceptor tyrosine-based switch motifs (ITSMs). 2B4 interacts with CD48, while other SLAM family proteins interact in a homophilic manner. The mouse 2B4 cDNA encodes a 397 amino acid (aa) precursor that includes a 19 aa signal sequence, a 207 aa ECD with one Ig-like V-type and one C2-type Ig-like domain, a 21 aa transmembrane segment, and a 150 aa cytoplasmic domain with four ITSMs. Within the ECD, mouse 2B4 shares 46 % and 68 % aa sequence identity with human and rat 2B4, respectively. 2B4/CD48 signaling cooperates with other receptor systems to either promote or inhibit NK and CD8+ T cell activation. The inhibitory activities are distinct from those of MHC I restricted inhibitory NK cell receptors. Ligation of 2B4 with antibodies or CD48 constructs can directly trigger inhibitory signaling or disrupt an inhibitory interaction, leading to cellular activation. 2B4 can also induce signaling through CD48. Synonym: Natural killer cell receptor 2B4, NK cell type I receptor protein 2B4, NKR2B4, SLAM family member 4, SLAMF4, Signaling lymphocytic activation molecule 4, CD244

Molecular Weight: 23.5 kDa

UniProt: [Q07763](#)

Application Details

Restrictions: For Research Use only

Handling

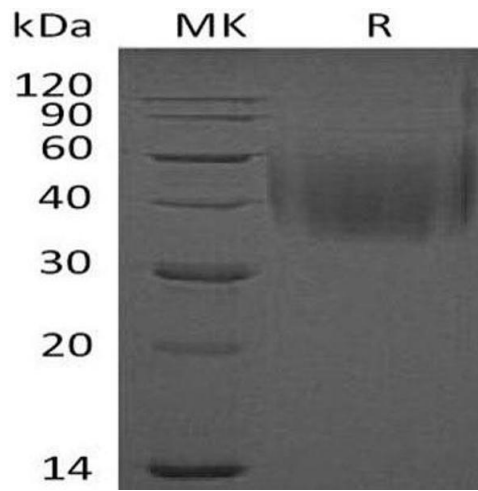
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.