

Human 2B4 / SLAMF / CD244 Protein (Fc Tag)



Sino Biological Inc.

Biological Solution Specialist

Catalog Number: 10042-H02H

General Information

Gene Name Synonym:

2B4 / CD244, CD244, NAIL, Nmrk, NKR2B4 / CD244, SLAMF4

Protein Construction:

A DNA sequence encoding the extracellular domain (Met 1-Arg221) of human 2B4 / CD244 (NP_057466.1) precursor was expressed with the C-terminal fused Fc region of human IgG1.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized human CD48 at 10 µg/ml (100 µl/well) can bind recombinant human 2B4 / CD244 with a linear range of 0.004-0.4 µg/ml.
2. Measured by its ability to bind biotinylated mouse CD48 in a functional ELISA.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Cys 22

Molecular Mass:

The recombinant 2B4/CD244/Fc chimera is a disulfide-linked homodimer. The reduced monomer comprises 438 amino acids and predicts a molecular mass of 49 kDa. As a result of glycosylation, the rh2B4/CD244/Fc monomer migrates as an approximately 70-80 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

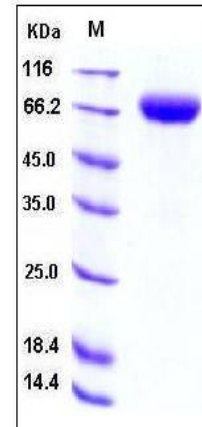
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

The CD244 antigen, also known as 2B4 / CD244, is a cell surface glycoprotein implicated in the regulation of natural killer and T lymphocyte function. The 2B4 / CD244 antigen identified on NK cells and T cells is capable of transmitting stimulatory signals and non-MHC-restricted killing. Reported as an activating receptor, human 2B4 / CD244 can effectively activate and enhance NK cell-mediated cytotoxicity, induce secretion of IFN-γ and matrix metalloproteinases (MMPs), as well as NK cell invasiveness. As a member of the CD2 subset of the Ig superfamily, CD244 is a high affinity ligand for CD48 and the interaction is essential for generation of NK effectors.

References

1. Brown, M.H. et al., 1998, J. Exp. Med. 188: 2083-2090.
2. Garni-Wagner, B.A. et al., 1993, J. Immunol. 151: 60-70.
3. Messmer, B. et al., 2006, J. Immunol. 176: 4646-4650.
4. Assarsson, E. et al., 2005, J. Immunol. 175: 2045-2049.
5. Kyung-Mi, L. et al., 2006, Blood. 107: 3181-3188.

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