

For Research Use Only

Recombinant Human CD244 protein (rFc Tag)(HPLC verified)



Catalog Number: Eg2286

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human CD244 protein Cys22-Arg221 (Accession# Q9BZW8-2) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
51744

Accession:
Q9BZW8-2

Predicted Molecular Mass:
48.5 kDa

SDS-PAGE:
55-70 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD244, also known as SLAMF4 or 2B4, is a type I transmembrane glycoprotein belonging to the signaling lymphocyte activation molecule (SLAM) family. It consists of an extracellular segment with two immunoglobulin (Ig)-like domains, a transmembrane region, and a cytoplasmic domain containing tyrosine-based motifs. CD244 is present on natural killer (NK) cells, γδ T cells, a subset of CD8+ T cells, monocytes, basophils, dendritic cells, and myeloid-derived suppressor cells (MDSCs). It binds to CD48 with high affinity and transmits stimulatory or inhibitory signals that regulate immune function.

References

1. Alexander David Barrow. et al. (2019) Front Immunol. 10:909.
2. M H Brown. et al. (1998) J Exp Med. 188(11):2083-90.
3. Laura Agresta. et al. (2018) Front Immunol. 9:2809.
4. M H Brown. et al. (1998) J Exp Med. 188(11):2083-90.

Synonyms

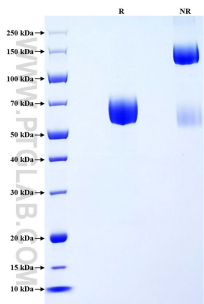
SLAMF4, 2B4, h2B4, NAIL, NK cell activation-inducing ligand

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human CD244 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

The purity of Human CD244 was greater than 90% as determined by SEC-HPLC.

