

# 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,  $\gamma\delta$  T cells, a subset of CD8<sup>+</sup> 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.

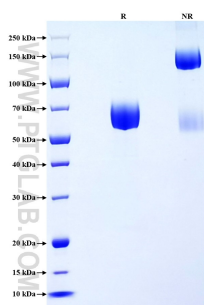
## References

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.

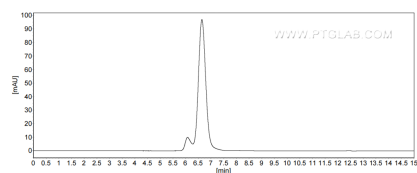
## Synonyms

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

## 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.

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

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