

For Research Use Only

# Recombinant Mouse 2B4/CD244/SLAMF4 protein (His Tag)



Catalog Number: Eg1583

|                   |                   |                            |                 |
|-------------------|-------------------|----------------------------|-----------------|
| Basic Information | Species:<br>Mouse | Purity:<br>>90 %, SDS-PAGE | Tag:<br>His Tag |
|-------------------|-------------------|----------------------------|-----------------|

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<1.0 EU/μg protein, LAL method

**Source:**  
HEK293-derived Mouse 2B4/CD244/SLAMF4 protein Gln20-Pro226 (Accession# Q07763-1) with a His tag at the C-terminus.

**GeneID:**  
18106

**Accession:**  
Q07763-1

**Predicted Molecular Mass:**  
24.5 kDa

**SDS-PAGE:**

**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

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

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