

For Research Use Only

Recombinant Mouse CD48 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg1393

Basic Information

Species:
Mouse

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 Mouse CD48 protein Phe23-Ser217 (Accession# BAE96326.1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
12506

Accession:
BAE96326.1

Predicted Molecular Mass:
48.7 kDa

SDS-PAGE:
60-70 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

Signaling lymphocytic activation molecule family 2 (SLAMF2, CD48) is an adhesion and costimulatory molecule expressed constitutively on most hematopoietic cells, particularly in antigen-presenting cells (APC). CD48 is expressed on all the hematopoietic cells, both in humans and mice, except for murine neutrophils and long-term HSC. CD48 exists as both a membrane-bound (mCD48) and a soluble (sCD48) form. CD48 can activate T cells, antigen-presenting cells and granulocytes, by binding to CD2 or bacterial FimH, and through cell intrinsic effects. Interactions between CD48 and its high-affinity ligand CD244 are more complex, with both stimulatory and inhibitory outcomes.

References

1. Zou C. et al. (2019). Onco Targets Ther. 12:4181-4193.
2. Boles NC. et al. (2011). Blood. 118(1):80-7.
3. Pahima H. et al. (2023). Ann Allergy Asthma Immunol. 130(2):245-253.
4. McArde SL. et al. (2016). Clin Immunol. 164:10-20.

Synonyms

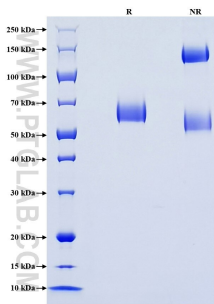
BLAST, BLAST 1, BLAST1, CD48 antigen, MEM 102

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

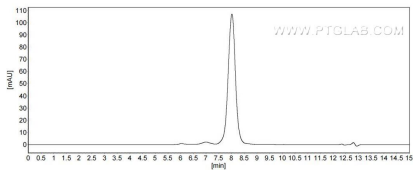
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Selected Validation Data



Purity of Recombinant Mouse CD48 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 Mouse CD48 was greater than 90% as determined by SEC-HPLC.