

For Research Use Only

Recombinant Human CD48 protein (Myc Tag, His Tag)



Catalog Number: Eg32086

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
Myc Tag, His Tag

EC50:
66-264 ng/mL

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human CD48 protein Gln27-Ser220 (Accession# P09326) with a Myc tag and a His tag at the C-terminus.

GeneID:
962

Accession:
P09326

Predicted Molecular Mass:
24.8 kDa

SDS-PAGE:
38-50 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

Immobilized Human CD48 (Myc tag, His tag) at 2 μg/mL (100 μL/well) can bind Biotinylated Human CD244 (hFc tag, Myc tag, His tag) with a linear range of 66-264 ng/mL.

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 human and mice, except for murine neutrophils and long term-HSC. As a number of Gpl receptors do, also CD48 exists as both a membrane bound (mCD48) and a soluble (sCD48) form. CD48 can have activating roles on 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. CD48 expression is increased in autoimmunity and allergy diseases, and anti-CD48 monoclonal antibodies have been shown to attenuate experimental autoimmune encephalomyelitis.

References

1. Cunyi Zou. et al. (2019). Onco Targets Ther. 12:4181-4193.
2. Shannon L McArdel. et al. (2016). Clin Immunol. 164:10-20.
3. Hadas Pahima. et al. (2019). Clin Immunol. 204:64-68.
4. Shannon L McArdel. et al. (2016). J Immunol. 197(8):3038-3048.

Synonyms

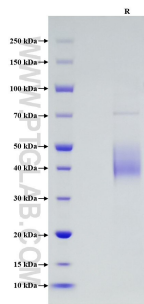
CD48, BLAST, BLAST1, B-lymphocyte activation marker BLAST-1, CD48 antigen

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

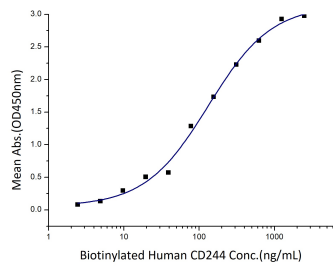
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Selected Validation Data



Purity of Recombinant Human CD48 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



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