

For Research Use Only

Recombinant human CD48 protein (C-6*HIS)



Catalog Number: Eg1005

Basic Information

Species:

Human

Purity:

>90 %, SDS-PAGE

Tag:

C-6*HIS

EC50:

10-41 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 His tag at the C-terminus.

GeneID:

962

Accession:

P09326

Predicted Molecular Mass:

21.7 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

Immobilized Human CD48 (His tag) at 2 µg/mL (100 µL/well) can bind Human CD244 (rFc tag) with a linear range of 10-41 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.

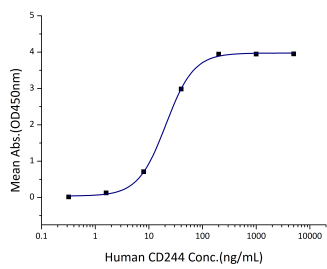
References

- 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

Selected Validation Data



Immobilized Human CD48 (His tag) at 2 μ g/mL (100 μ L/well) can bind Human CD244 (rFc tag) with a linear range of 10-41 ng/mL