

RP00272

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Recombinant Human ICAM-1/CD54 Protein

Catalog No.: RP00272

Recombinant

2 Publications

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3383	P05362

Tags

C-His

Synonyms

BB2;CD54;P3.58;ICAM1

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein is a cell surface glycoprotein which is typically expressed on endothelial cells and cells of the immune system. It binds to integrins of type CD11a / CD18, or CD11b / CD18 and is also exploited by Rhinovirus as a receptor. ICAM proteins are ligands for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation.

Basic Information

Description

Recombinant Human ICAM-1/CD54 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln28-Glu480) of human ICAM-1/CD54 (Accession #NP_000192.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized APC Mouse Anti-Human CD54 at 1μg/mL (25 μL/well) can bind Human CD54 with a linear range of 0.46-7.8 ng/mL.

Storage

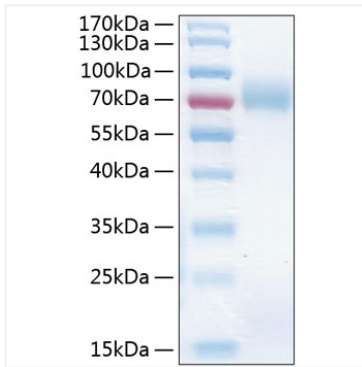
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

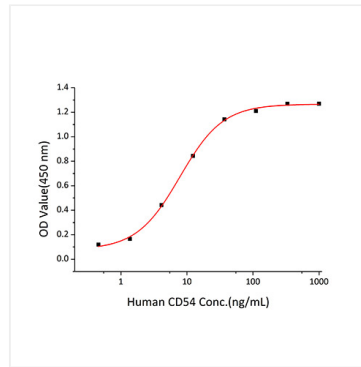


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Validation Data



Recombinant Human ICAM-1/CD54 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 70-80 kDa.



Immobilized APC Mouse Anti-Human CD54 at 1 μ g/mL (25 μ L/well) can bind Human CD54 with a linear range of 0.46-7.8 ng/mL.