Recombinant Human ICAM-1/CD54 Protein

Catalog No.: RP00272

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Sequence Information

Species
Human

Gene ID
3383

Swiss Prot
P05362

Tags
C-His

Synonyms
BB2,CD54,P3.58,ICAM1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
50.34 kDa

Observed MW
70-80 kDa

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 stablizer (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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

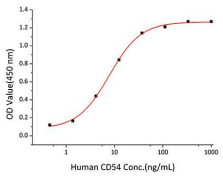
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

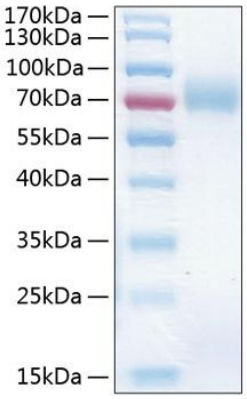
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Validation Data



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.



Recombinant Human ICAM-1/CD54 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.