ICAM-1/CD54 Monoclonal Antibody(Capture)

catalog number: AN001650P

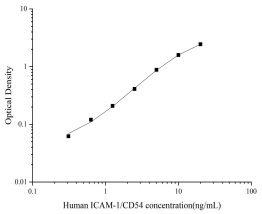
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Recombinant Human ICAM-1/CD54 protein expressed by Mammalian
Host	Mouse
Isotype	Mouse IgG1
Clone	4C3
Purification	Protein A/G Purification
Conjugation	Unconjugated
buffer	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

Applications	Recommended Dilution
ELISA Capture	2-8 μg/mL

Data



Sandwich ELISA-Recombinant Human ICAM-1/CD54 protein standard curve.Background subtracted standard curve using ICAM-1/CD54 antibody(AN001650P) (Capture),ICAM-1/CD54 Antibody(AN001660P)(Detector) in sandwich ELISA.The reference range value for Recombinant Human ICAM-1/CD54 protein is 0.31-20 ng/mL.

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

Background

Intercellular adhesion molecule-1 (ICAM-1,or CD54) is a 90 kDa member of the immunoglobulin (Ig) superfamily and is critical for the firm arrest and transmigration of leukocytes out of blood vessels and into tissues. ICAM-1 is constitutively present on endothelial cells,but its expression is increased by proinflammatory cytokines. The endothelial expression of ICAM-1 is increased in atherosclerotic and transplant-associated atherosclerotic tissue and animal models of atherosclerosis. Additionally,ICAM-1 has been implicated in the progression of autoimmune diseases. ICAM-1 is a ligand for LFA-1(integrin). When activated,leukocytes bind to endothelial cells via ICAM-1/LFA-1 interaction and then transmigrate into tissues. Presence with heavy glycosylation and other structural characteristics,ICAM-1 possesses binding sites for some immune-associated ligands and serves as the binding site for entry of the major group of human Rhinovirus (HRV) into various cell types. ICAM-1 also becomes known for its affinity for Plasmodium falciparum-infected erythrocytes (PFIE),providing more of a role in infectious disease. Previous studies have shown that ICAM-1 is involved in inflammatory reactions and that a defect in ICAM-1 gene inhibits allergic contact hypersensitivity.

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