

ICAM-1/CD54 Monoclonal Antibody(Capture)

catalog number: AN001440P

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

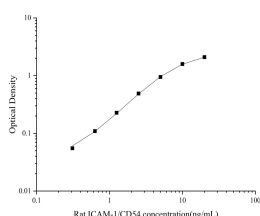
Description

Reactivity	Rat
Immunogen	Recombinant Rat ICAM-1/CD54 Protein expressed by Mammalian
Host	Mouse
Isotype	Mouse IgG1
Clone	2F7
Purification	Protein A/G Purification
Buffer	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

Applications Recommended Dilution

ELISA Capture	2-8 µg/mL
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Data



Sandwich ELISA-Recombinant Rat ICAM-1/CD54 Protein standard curve. Background subtracted standard curve using ICAM-1/CD54 antibody(AN001440P) (Capture), ICAM-1/CD54 antibody(AN001450P)(Detector) in sandwich ELISA. The reference range value for Recombinant Rat ICAM-1/CD54 Protein is 0.313-20 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

ICAM-1 (intercellular adhesion molecule-1), also known as CD54, is a transmembrane protein that is upregulated on endothelial and epithelial cells at sites of inflammation. It mediates the vascular adhesion and paracellular migration of leukocytes expressing activated IFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18). It also binds several non-integrin ligands including CD43/Sialophorin, Fibrinogen, Hyaluronan, rhinoviruses, and Plasmodium falciparum-infected erythrocytes. Soluble ICAM-1 promotes angiogenesis and serves as an indicator of vascular endothelial cell activation or damage. Elevated levels of soluble ICAM-1 are associated with cardiovascular disease, type 2 diabetes, organ transplant dysfunction, oxidant stress, increased abdominal fat mass, hypertension, liver disease, certain malignancies, and cerebral malaria.

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