

Rat ICAM-1 / CD54 ELISA Kit | ICAM-1 / CD54 elisa kit

ICAM-1 / CD54 Rat ELISA Kit

CATALOG # AAA58973	REACTIVITY Rat	APPLICATIONS ELISA
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PRODUCT SYNONYMS

ICAM-1 / CD54; ICAM-1 / CD54 Rat ELISA Kit; Rat ICAM-1 / CD54; ICAM-1 / CD54 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Assay Type	Sandwich
Samples	Rat serum, plasma, body fluids, tissue lysates or cell culture supernatants
Detection Range	31.2 pg/ml-2000 pg/ml
Sensitivity	< 2 pg/ml
Applicable Applications for ICAM-1 / CD54 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve
Results of a typical standard run of a Rat ICAM-1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (n/A=not applicable)

X	Pg/ml	0	31.2	62.5	125	250	500	1000	2000
Y	OD450	0.078	0.116	0.157	0.233	0.386	0.644	1.177	2.383

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ICAM-1 / CD54 elisa kit

Background: ICAM-1 (Intercellular Adhesion Molecule 1) also known as CD54 (Cluster of Differentiation 54) 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-1 is a member of the immunoglobulin superfamily, it can be induced by interleukin-1 (IL-1) and tumor necrosis factor alpha (TNFalpha) and is expressed by the vascular endothelium, macrophages, and lymphocytes. It is also an endothelial- and leukocyte-associated transmembrane protein long known for its importance in stabilizing cell-cell interactions and facilitating leukocyte endothelial transmigration. More recently, ICAM-1 has been characterized as a site for the cellular entry of human rhinovirus.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-ICAM-1 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-ICAM-1 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the ICAM-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of ICAM-1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167466198
NCBI GeneID	3383
NCBI Accession #	NP_000192.2
NCBI GenBank Nucleotide #	NM_000201.2
UniProt Accession #	P05362; Q5NKV7; Q96B50; B2R6M3
Molecular Weight	57,825 Da
NCBI Official Full Name	intercellular adhesion molecule 1
NCBI Official Synonym Full Names	intercellular adhesion molecule 1
NCBI Official Symbol	ICAM1
NCBI Official Synonym Symbols	BB2; CD54; P3.58
NCBI Protein Information	intercellular adhesion molecule 1; ICAM-1; cell surface glycoprotein P3.58; major group rhinovirus receptor; intercellular adhesion molecule 1 (CD54), human rhinovirus receptor
UniProt Protein Name	Intercellular adhesion molecule 1
UniProt Gene Name	ICAM1
UniProt Synonym Gene Names	ICAM-1
UniProt Entry Name	ICAM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/icam-1-cd54/58973>