

Mouse VCAM-1 ELISA Kit | VCAM-1 elisa kit

VCAM-1 Mouse ELISA Kit

CATALOG # AAA58953	REACTIVITY Mouse	APPLICATIONS ELISA
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PRODUCT SYNONYMS

VCAM-1; VCAM-1 Mouse ELISA Kit; Mouse VCAM-1; VCAM-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Assay Type	Sandwich
Samples	Mouse serum, plasma, body fluids, tissue lysates or cell culture supernatants
Detection Range	156 pg/ml-10,000 pg/ml
Sensitivity	< 5 pg/ml
Applicable Applications for VCAM-1 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 Mouse VCAM-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	156	312	625	1250	2500	5000	10,000
Y	OD450	0.053	0.097	0.132	0.208	0.354	0.633	1.109	2.316

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VCAM-1 elisa kit

Background: Vascular cell adhesion protein 1 (VCAM-1), also known as cluster of differentiation 106 (CD106) is a protein that in humans is encoded by the VCAM1 gene. This gene contains 9 exons spanning about 25 kb, and It is expressed on both large and small blood vessels only after the endothelial cells are stimulated by cytokines. The VCAM-1 is a cell surface sialoglycoprotein, a type I membrane protein that is a member of the Ig superfamily. It mediates the adhesion of lymphocytes, monocytes, eosinophils, and basophils to vascular endothelium. It also functions in leukocyte-endothelial cell signal transduction, and it may play a role in the development of atherosclerosis and rheumatoid arthritis.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-VCAM-1 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-VCAM-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 VCAM-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of VCAM-1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6981700
NCBI GeneID	25361
NCBI Accession #	NP_037021.1
NCBI GenBank Nucleotide #	NM_012889.1
UniProt Accession #	P29534; Q5FVS3; Q63669
Molecular Weight	81,246 Da
NCBI Official Full Name	vascular cell adhesion protein 1
NCBI Official Synonym Full Names	vascular cell adhesion molecule 1
NCBI Official Symbol	Vcam1
NCBI Official Synonym Symbols	VCAM1B
NCBI Protein Information	vascular cell adhesion protein 1; VCAM-1; V-CAM 1
UniProt Protein Name	Vascular cell adhesion protein 1
UniProt Gene Name	Vcam1
UniProt Synonym Gene Names	Vcam-1; V-CAM 1; VCAM-1
UniProt Entry Name	VCAM1_RAT

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/mouse-elisa-kits/vcam-1/58953>