

Rat Vascular Cell Adhesion Molecule 1 (VCAM-1) ELISA Kit | VCAM-1 elisa kit

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CATALOG # AAA330149	REACTIVITY Rat
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PRODUCT SYNONYMS

Vascular Cell Adhesion Molecule 1 (VCAM-1); Rat Vascular Cell Adhesion Molecule 1 (VCAM-1) ELISA Kit; VCAM1; CD106; DKFZp779G2333; INCAM-100; MGC99561; CD106 antigen; VCAM-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat Vascular cell adhesion molecule 1 (VCAM-1) ELISA Kit has high sensitivity and excellent specificity for detection of Rat VCAM1. No significant cross-reactivity or interference between Rat VCAM1 and analogues was observed.
Sequence Length	739
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Rat Vascular cell adhesion molecule 1 (VCAM-1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for VCAM-1 elisa kit	Description: This Rat Vascular cell adhesion molecule 1 (VCAM-1) ELISA Kit employs a two-site sandwich ELISA to quantitate VCAM1 in samples. An antibody specific for VCAM1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any VCAM1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VCAM1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of VCAM1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: VCAM-1 (CD106), a member of the immunoglobulin superfamily, is a cell surface protein expressed by activated endothelial cells and certain leukocytes (such as macrophages). VCAM-1 expression is induced by IL-1beta, IL-4, TNF-alpha and IFN-gamma. VCAM-1 binds to leukocyte integrins VLA-4 and alpha4beta7. The rat and mouse SVCAM-1 proteins share approximately 76% amino acid similarity. VCAM-1 is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of atherosclerosis and rheumatoid arthritis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6981700
NCBI GeneID	25361
NCBI Accession #	NP_037021.1
NCBI GenBank Nucleotide #	NP_037021.1
UniProt Accession #	P29534
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
UniProt Protein Name	Vascular cell adhesion protein 1
UniProt Gene Name	Vcam1
UniProt Synonym Gene Names	Vcam-1; V-CAM 1; VCAM-1

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.