

Rat CD166 ELISA Kit | ALCAM elisa kit

Rat CD166 ELISA Kit

CATALOG #
AAA263151

REACTIVITY
Rat

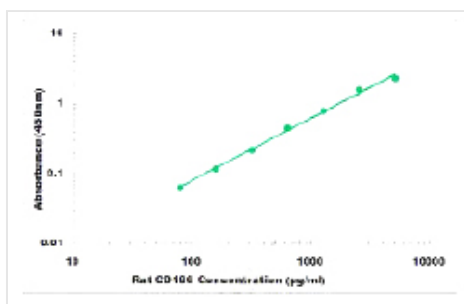
PRODUCT SYNONYMS

CD166; Rat CD166 ELISA Kit; MEMD; CD166 antigen; Activated leukocyte cell adhesion molecule; ALCAM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The Rat CD166 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat CD166 proteins within the range of 78 pg/ml - 5000 pg/ml.
Sequence Length	583
Samples	Cell Culture Supernates, Serum, Plasma
Sensitivity	<10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ALCAM elisa kit	Principle of the Assay: The Rat CD166 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat CD166 in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Rat CD166 coated on a 96-well plate. Standards and samples are pipetted into the wells and CD166 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat CD166 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of CD166 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background: CD166 antigen is a 100-105 kD typeI transmembrane glycoprotein that is a member of the immunoglobulin superfamily of proteins. In humans it is encoded by the ALCAM gene. The human gene was mapped to chromosome 3q13.1-q13.2 by fluorescence in situ hybridization of cDNA probes to metaphase chromosomes. It is also called CD166 (cluster of differentiation 166), MEMD, SC-1/DM-GRASP/BEN in the chicken, and KG-CAM in the rat. This gene is expressed on activated T cells, activated monocytes, epithelial cells, fibroblasts, neurons, melanoma cells, and also in sweat and sebaceous glands. CD166 plays an important role in mediating adhesion interactions between thymic epithelial cells and CD6+ cells during intrathymic T cell development. Recently, CD166 has also been used as a potential cancer stem cell marker.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13929058
NCBI GeneID	79559
NCBI Accession #	NP_113941.1
NCBI GenBank Nucleotide #	NM_031753.1
UniProt Accession #	O35112; O55172
Molecular Weight	65,022 Da
NCBI Official Full Name	CD166 antigen
NCBI Official Synonym Full Names	activated leukocyte cell adhesion molecule
NCBI Official Symbol	Alcam
NCBI Protein Information	CD166 antigen
UniProt Protein Name	CD166 antigen
UniProt Gene Name	Alcam
UniProt Entry Name	CD166_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.