

Rat ALCAM ELISA Kit | ALCAM elisa kit

Rat ALCAM PicoKine ELISA Kit

CATALOG #
AAA46796

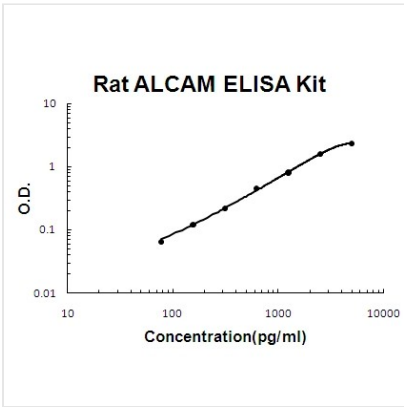
REACTIVITY
Rat

PRODUCT SYNONYMS

ALCAM; Rat ALCAM PicoKine ELISA Kit; ALCAM protein; CD166 antigen; Protein MEMD; Q13740; activated leukocyte cell adhesion molecule; ALCAM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat ALCAM
Sequence Length	583
Assay Range	78pg/ml-5000pg/ml
Sensitivity	<10pg/ml
Anticoagulant	heparin or EDTA
TMB incubation time	25-30
Immunogen	NSO, W28-K527
Sample Data	Concentration(pg/ml): 0 78 156 312 625 1250 2500 5000 O.D.: 0.004 0.064 0.118 0.215 0.450 0.798 1.578 2.317
Intra/Inter Assay Precision	Sample: 1 2 3 1 2 3 n: 16 16 16 24 24 24 Mean(pg/ml): 189 722 2741 201 830 2905 Standard Deviation: 9.26 37.54 158.98 11.86 50.63 203.35 CV(%): 4.9 5.2 5.8 5.9 6.1 7.0
Assay Procedure Step 1	Aliquot 0.1ml per well of the 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 313pg/ml, 156pg/ml, 78pg/ml rat ALCAM standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each rat ALCAM standard solution and each sample be measured in duplicate.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Rat ALCAM PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for ALCAM elisa kit	For quantitative detection of rat ALCAM in cell culture supernates, cell lysates, tissue homogenates, serum and plasma (heparin, EDTA). 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. Principle: Rat ALCAM ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from Mouse specific for ALCAM has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: W28-K527) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ALCAM is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substRate TMB was 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 Rat ALCAM amount of sample captured in plate.
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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

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/alcam/46796>