

Mouse ALCAM PicoKine ELISA Kit | Alcam elisa kit

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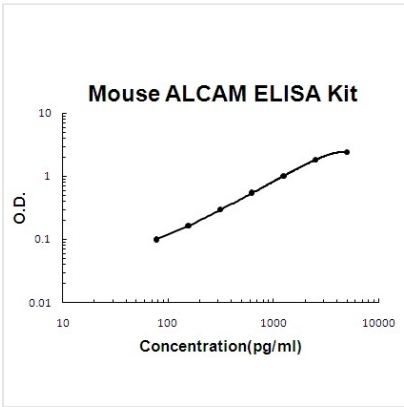
CATALOG # AAA46124	REACTIVITY Mouse
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PRODUCT SYNONYMS

ALCAM PicoKine; Mouse ALCAM PicoKine ELISA Kit; CD166 antigen; Activated leukocyte cell adhesion molecule; ALCAM; ALCAM protein; CD 166; CD166; CD166_HUMAN; FLJ3851; FLJ38514; MEMD; MGC71733; activated leukocyte cell adhesion molecule; Alcam elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse ALCAM
Sequence Length	583
Assay Range	156pg/ml-10,000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of mouse ALCAM in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, W28-K527
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml mouse 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse ALCAM standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(ng/ml) 0.57 2.33 4.25 0.68 2.74 4.61 Standard deviation 0.029 0.086 0.136 0.058 0.17 0.244 CV(%) 5.1 3.7 3.2 8.6 6.2 5.3
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.066 0.098 0.164 0.294 0.544 1.007 1.821 2.388
Anticoagulant	Heparin or EDTA
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)
Mouse ALCAM PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for Alcam elisa kit	Principle of the assay: Mouse ALCAM ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for ALCAM has been precoated onto 96-well plates. Standards(NSO, 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 mouse ALCAM amount of sample captured in plate. 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 gene was mapped to human 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. It is expressed on activated T cells, activated monocytes, epithelial cells, fibroblasts, neurons, melanoma cells, and also in sweat and sebaceous glands. CD166 protein expression is reported to be upregulated in a cell line deriving from a metastasizing melanoma. 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 #	31791059
NCBI GeneID	11658
NCBI Accession #	NP_033785.1
NCBI GenBank Nucleotide #	NM_009655.2
UniProt Accession #	Q61490; O70136; Q8CDA5; Q8R2T0
Molecular Weight	65,092 Da
NCBI Official Full Name	CD166 antigen
NCBI Official Synonym Full Names	activated leukocyte cell adhesion molecule
NCBI Official Symbol	Alcam
NCBI Official Synonym Symbols	BEN; SC1; MuSC; CD166; AI853494; DM-GRASP
NCBI Protein Information	CD166 antigen
UniProt Protein Name	CD166 antigen

UniProt Gene Name	Alcam
UniProt Entry Name	CD166_MOUSE

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/alcam-picokine/46124>