

Human CD109 antigen ELISA Kit | CD109 elisa kit

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CATALOG #
AAA99198

REACTIVITY
Human

PRODUCT SYNONYMS

CD109 antigen; Human CD109 antigen ELISA Kit; CD109/CPAMD7/150 kDa TGF-beta-1-binding protein/activated T-cell marker CD109/C3 and PZP-like alpha-2-macroglobulin domain-containing protein 7/CD109 antigen/CD109 molecule/CPAMD7r150/Gov platelet alloantigens/Platelet-specific Gov antigen/r150/p180; CD109 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CAV1. No significant cross-reactivity or interference between CAV1 and analogues was observed.
Sequence Length	1368
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CAV1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CAV1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a CD109 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A-not applicable)

X	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.103	0.156	0.289	0.46	0.781	1.336	2.205	3.212

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CD109 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-CAV1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-CAV1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin 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 CAV1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of CAV1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	227430303
NCBI GeneID	135228
NCBI Accession #	NP_001153060.1
NCBI GenBank Nucleotide #	NM_001159588.2
Molecular Weight	159,696 Da
NCBI Official Full Name	CD109 antigen isoform 3 preproprotein
NCBI Official Synonym Full Names	CD109 molecule
NCBI Official Symbol	CD109
NCBI Official Synonym Symbols	p180; r150; CPAMD7
NCBI Protein Information	CD109 antigen
UniProt Protein Name	CD109 antigen
UniProt Gene Name	CD109
UniProt Synonym Gene Names	CPAMD7
UniProt Entry Name	CD109_HUMAN

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/human-elisa-kits/cd109-antigen/99198>