

Human Integrin Alpha 1 (ITGa1) ELISA Kit | ITGa1 elisa kit

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CATALOG #
AAA139122

REACTIVITY
Human

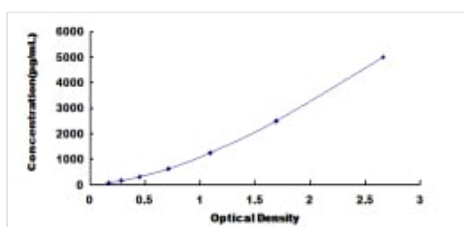
PRODUCT SYNONYMS

Integrin Alpha 1 (ITGa1); Human Integrin Alpha 1 (ITGa1) ELISA Kit; CD49-A; CD49a; ITG-A1; VLA1; CD49 antigen-like family member A; Laminin and collagen receptor; ITGa1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Integrin Alpha 1 (ITGa1). No significant cross-reactivity or interference between Integrin Alpha 1 (ITGa1) and analogues was observed.
Sequence Length	1,179
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	78-5,000pg/mL
Sensitivity	32pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Integrin Alpha 1 (ITGa1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Integrin Alpha 1 (ITGa1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ITGa1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Integrin Alpha 1 (ITGa1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Integrin Alpha 1 (ITGa1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Integrin Alpha 1 (ITGa1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Integrin Alpha 1 (ITGa1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for ITGa1 elisa kit	CD & Adhesion molecule

NCBI AND UNIPROT INFORMATION

NCBI GI #	31657142
NCBI GeneID	3672
NCBI Accession #	NP_852478.1
NCBI GenBank Nucleotide #	NM_181501.1
UniProt Accession #	P56199; B2RNU0
Molecular Weight	130,848 Da
NCBI Official Full Name	integrin alpha-1
NCBI Official Synonym Full Names	integrin, alpha 1
NCBI Official Symbol	ITGA1
NCBI Official Synonym Symbols	VLA1; CD49a
NCBI Protein Information	integrin alpha-1
UniProt Protein Name	Integrin alpha-1
UniProt Gene Name	ITGA1
UniProt Entry Name	ITA1_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/integrin-alpha-1-itga1/139122>