

Human Integrin alpha-4 ELISA Kit | ITGA4 elisa kit

Human Integrin alpha-4 ELISA Kit

CATALOG #
AAA98531

REACTIVITY
Human

PRODUCT SYNONYMS

Integrin alpha-4; Human Integrin alpha-4 ELISA Kit; ITGA4/Integrin alpha 4/CD49d/VLA-4/269C wild type/CD49 antigen-like family member D/CD49d antigen/IA4/integrin alpha-4/integrin alpha-4 subunit/Integrin alpha-IV/very late activation protein 4 receptor; alpha 4 subunit/VLA-4 subunit alpha; ITGA4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ITG alphaVbeta3. No significant cross-reactivity or interference between ITG alphaVbeta3 and analogues was observed.
Sequence Length	1032
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ITG alphaVbeta3 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 ITG alphaVbeta3 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 run of a ITGA4 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	0.117	0.184	0.269	0.43	0.657	1.317	2.043	2.521

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ITGA4 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-ITG alpha Vbeta3 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-ITG alphaVbeta 3 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 ITG alphaVbeta3 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of ITG alphaV beta3 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	67191027
NCBI GeneID	3676
NCBI Accession #	NP_000876.3
NCBI GenBank Nucleotide #	NM_000885.5
Molecular Weight	21,536 Da
NCBI Official Full Name	integrin alpha-4 isoform 1 preproprotein
NCBI Official Synonym Full Names	integrin subunit alpha 4
NCBI Official Symbol	ITGA4
NCBI Official Synonym Symbols	IA4; CD49D
NCBI Protein Information	integrin alpha-4
UniProt Protein Name	Integrin alpha-4
UniProt Gene Name	ITGA4
UniProt Synonym Gene Names	CD49D
UniProt Entry Name	ITA4_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/itga4-human-elisa-kits/integrin-alpha-4/98531>