

Human Annexin A1 ELISA Kit | ANXA1 elisa kit

Human Annexin A1 Quick ELISA Kit

CATALOG #
AAA125896

REACTIVITY
Human

PRODUCT SYNONYMS

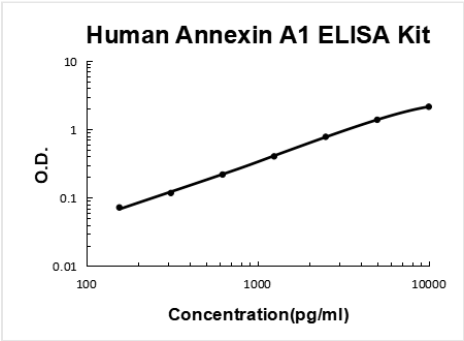
Annexin A1; Human Annexin A1 Quick ELISA Kit; Annexin A1|Annexin A1; annexin I (lipocortin I); Annexin I; Annexin-1; ANX1; ANXA1; Calpactin II; calpactin-2; chromobindin-9; Lipocortin I; LPC1; LPC1annexin-1; p35; Phospholipase A2 inhibitory protein; ANXA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human ANXA1
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<100pg/ml
Capture/Detection Antibodies	Capture antibody- polyclonal antibody from goat Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.056 0.128 0.173 0.274 0.458 0.833 1.436 2.197
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 288 1452 5263 Standard deviation 12.67 59.53 268.41 CV(%) 4.4% 4.1% 5.1%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 301 1563 5364 Standard deviation 17.16 100.03 413.03 CV(%) 5.7% 6.4% 7.7%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 288 291 294 288 290 6.39 2.2% Sample 2: 1452 1426 1367 1348 1398 27.97 2% Sample 3: 5263 4796 5102 4982 5036 125.89 2.5% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: NS0; Immunogen sequence: A2-N346
Anticoagulant	heparin, EDTA or citrate
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human Annexin A1 with <100pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Human ANXA1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human ANXA1 in cell culture supernatants, serum and plasma (heparin, EDTA, citrate). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Human ANXA1 with immunogen: Expression system for standard: NS0, Immunogen sequence: A2-N346. To measure Human ANXA1, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human ANXA1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human ANXA1 in the sample.
Assay Procedure Step 1	10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312.5pg/ml, 156.25pg/ml
TMB Incubation Time	15
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for ANXA1 elisa kit	ANXA1, also known as lipocortin I or Annexin A1, is a protein that in humans is encoded by the ANXA1 gene. It is mapped to 9q21. 13. ANXA1 belongs to a family of Ca(2+)-dependent phospholipid binding proteins which have a molecular weight of approximately 35,000 to 40,000 and are preferentially located on the cytosolic face of the plasma membrane. ANXA1 protein has an apparent relative molecular mass of 40 kDa, with phospholipase A2 inhibitory activity. Lower peptide concentrations possibly found in inflammatory situations elicit Ca(2+) transients without fully activating the mitogen-activated protein kinase pathway. This causes a specific inhibition of the transendothelial migration of neutrophils and a desensitization of neutrophils toward a chemoattractant challenge. These findings identified ANXA1 peptides as novel, endogenous FPR ligands and established a mechanistic basis of ANXA1-mediated antiinflammatory effects.
Product Categories/Family for ANXA1 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502101
NCBI GeneID	301
NCBI Accession #	NP_000691.1
NCBI GenBank Nucleotide #	NM_000700.1

UniProt Accession #	P04083
Molecular Weight	38,714 Da
NCBI Official Full Name	annexin A1
NCBI Official Synonym Full Names	annexin A1
NCBI Official Symbol	ANXA1
NCBI Official Synonym Symbols	ANX1; LPC1
NCBI Protein Information	annexin A1; p35; annexin-1; calpactin-2; calpactin II; lipocortin I; chromobindin-9; annexin I (lipocortin I); phospholipase A2 inhibitory protein
UniProt Protein Name	Annexin A1
UniProt Gene Name	ANXA1
UniProt Synonym Gene Names	ANX1; LPC1
UniProt Entry Name	ANXA1_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/anxa1-human-elisa-kits/annexin-a1/125896>