

Human Angiogenin/ANG ELISA Kit | ANG elisa kit

Human Angiogenin/ANG Quick ELISA Kit

CATALOG #
AAA125846

REACTIVITY
Human

PRODUCT SYNONYMS

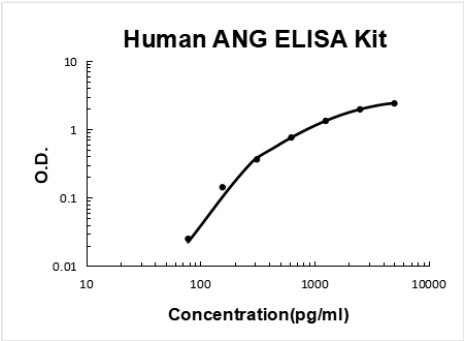
Angiogenin/ANG; Human Angiogenin/ANG Quick ELISA Kit; Angiogenin|ALS9; ANG; Angiogenin; angiogenin; ribonuclease; RNase A family; 5; EC 3. 1. 27; EC 3. 1. 27. -; epididymis luminal protein 168; HEL168; MGC22466; MGC71966; Ribonuclease 5; RNase 5; RNASE5RNASE4; ANG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human ANG
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	78pg/ml-5,000pg/ml
Sensitivity	<12pg/ml
Capture/Detection Antibodies	Capture antibody- polyclonal antibody from goat Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 78 156 312 625 1250 2500 5000 O.D. 0.035 0.060 0.177 0.398 0.795 1.363 1.996 2.429
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 101 751 2946 Standard deviation 4.44 48.06 191.49 CV(%) 4.4% 6.4% 6.5%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 98 712 2931 Standard deviation 4.41 45.57 240.34 CV(%) 4.5% 6.4% 8.2%
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: 101 120 127 102 113 6.08 5.4% Sample 2: 751 691 634 721 699 42.65 6.1% Sample 3: 2946 2796 2945 2864 2888 57.76 2% *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: E Coli; Immunogen sequence: Q25-P147
Anticoagulant	heparin or EDTA
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human Angiogenin/ANG with <12pg/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 ANG Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human ANG in cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA). 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 ANG with immunogen: Expression system for standard: E Coli; Immunogen sequence: Q25-P147. To measure Human ANG, 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 ANG 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 ANG in the sample.
Assay Procedure Step 1	5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312.5pg/ml, 156.25pg/ml, 78.125pg/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 ANG elisa kit	Angiogenin(Ang) also known as ribonuclease 5 is a protein that in humans is encoded by the ANG gene. Angiogenin is a potent stimulator of new blood vessel formation. It hydrolyzes cellular tRNAs resulting in decreased protein synthesis and is similar to pancreatic ribonuclease. Hooper et al. (2003) reviewed the evidence that angiogenins are involved in host defense and noted that inflammation provokes upregulated ANG mRNA expression in liver and an increase in detectable ANG protein in serum. Weremowicz et al. (1989, 1990) assigned the human angiogenin gene to chromosome 14q11.
Product Categories/Family for ANG elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557313
NCBI GeneID	283
NCBI Accession #	NP_001136.1
NCBI GenBank Nucleotide #	NM_001145.4
UniProt Accession #	P03950; Q05CV1; Q53X86; Q6P5T2; Q8WXE7
Molecular Weight	16,550 Da

NCBI Official Full Name	angiogenin
NCBI Official Synonym Full Names	angiogenin, ribonuclease, RNase A family, 5
NCBI Official Symbol	ANG
NCBI Official Synonym Symbols	ALS9; HEL168; RNASE4; RNASE5
NCBI Protein Information	angiogenin; RNase 5; ribonuclease 5; epididymis luminal protein 168
UniProt Protein Name	Angiogenin
UniProt Gene Name	ANG
UniProt Synonym Gene Names	RNASE5; RNase 5
UniProt Entry Name	ANGI_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://www.aaabiotech.com/human-elisa-kits/angiogenin-ang/125846>