

Mouse Angiopoietin-2 ELISA Kit | Angpt2 elisa kit

Mouse Angiopoietin-2 Quick ELISA Kit

CATALOG #
AAA125884

REACTIVITY
Mouse

PRODUCT SYNONYMS

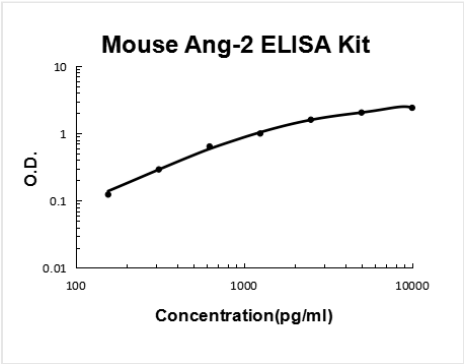
Angiopoietin-2; Mouse Angiopoietin-2 Quick ELISA Kit; Angiopoietin-2|AGPT2; ANG2; ANG-2; angiopoietin 2; angiopoietin-2a; angiopoietin-2B; angiopoitin 2; ANGPT2; Tie2-ligand; Angpt2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Angpt2
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<10pg/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. 0.030 0.153 0.321 0.669 1.026 1.628 2.072 2.434
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 218 1324 4652 Standard deviation 11.12 55.61 250.91 CV(%) 5.1% 4.2% 5.5%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 226 1236 4966 Standard deviation 10.62 59.33 332.72 CV(%) 4.7% 4.8% 6.7%
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: 218 210 235 266 232 10.92 4.7% Sample 2: 1324 1236 1234 1241 1259 44.06 3.5% Sample 3: 4562 5698 5204 5784 5312 350.59 6.6% *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: CHO; Immunogen sequence: M1-F496
Anticoagulant	heparin or EDTA
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Mouse Angiopoietin-2 with <10pg/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	Mouse Angpt2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse Angpt2 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 Mouse Angpt2 with immunogen: Expression system for standard: CHO; Immunogen sequence: M1-F496. To measure Mouse Angpt2, 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 Mouse Angpt2 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 Mouse Angpt2 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 Angpt2 elisa kit	Angiopoietin-2 is a protein that in humans is encoded by the ANGPT2 gene. Angiopoietins are members of the vascular endothelial growth factor family and the only known growth factors largely specific for vascular endothelium. ANGPT2 is a naturally occurring antagonist of angiopoietin-1 that competes for binding to the TIE2 receptor and blocks ANGPT1-induced TIE2 autophosphorylation during vasculogenesis. Its expression occurs at sites of vascular remodelling: dorsal aorta and major aortic branches, ovary, placenta and uterus.
Product Categories/Family for Angpt2 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	31982508
NCBI GeneID	11601
NCBI Accession #	NP_031452.2
NCBI GenBank Nucleotide #	NM_007426.4
UniProt Accession #	O35608; Q3U1A1; Q9D2D2
Molecular Weight	56,576 Da

NCBI Official Full Name	angiopoietin-2
NCBI Official Synonym Full Names	angiopoietin 2
NCBI Official Symbol	Angpt2
NCBI Official Synonym Symbols	Ang2; Agpt2; Ang-2
NCBI Protein Information	angiopoietin-2
UniProt Protein Name	Angiopoietin-2
UniProt Gene Name	Angpt2
UniProt Synonym Gene Names	Agpt2; ANG-2

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/angpt2-mouse-elisa-kits/angiopoietin-2/125884>