

Human Angiopoietin-2 ELISA Kit | ANGPT2 elisa kit

ANGII Human ELISA Kit

CATALOG # AAA58913	REACTIVITY Human	APPLICATIONS ELISA
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PRODUCT SYNONYMS

Angiopoietin-2; ANGII Human ELISA Kit; Human Angiopoietin-2; ANGPT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Human serum, plasma, urine, cell culture supernatant or tissue samples
Detection Range	8 pg/ml-150 pg/ml
Applicable Applications for ANGPT2 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 6 months.

IMAGES

Typical Data & Standard Curve Results of a typical standard run of a Human ANGPT2 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	Pg/ml	0	9.4	18.8	37.5	75	150
Y	OD450	0.075	0.137	0.261	0.514	1.056	2.194

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ANGPT2 elisa kit

Background: Angiopoietins are protein growth factors that promote angiogenesis, the formation of blood vessels from pre-existing blood vessels. All angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. ANGII is a naturally occurring antagonist of angiopoietin-1 (ANGPT1) that competes for binding to the TIE2 receptor and blocks ANGPT1-induced TIE2 autophosphorylation during vasculogenesis. ANGII is a mediator of epithelial necrosis with an important role in hyperoxic acute lung injury and pulmonary edema. It plays a critical role in inducing tumor cell infiltration, and that this invasive phenotype is caused by activation of MMP2.

Principle of the Assay: This kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. The purified anti-ANGPT2 antibody was pre-coated onto 96-well plates. And the HRP conjugated anti-ANGPT2 antibody was used as detection antibodies. The standards, test samples and HRP conjugated detection antibody were added to the wells subsequently, mixed and incubated, then, unbound conjugates were washed away with wash buffer. TMB substrates (A & B) 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 ANGPT2 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of ANGPT2 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50082538
NCBI GeneID	285

UniProt Accession #	O15123 ; Q9NRR7 ; Q9P2Y7 ; A0AV38 ; A8K205 ; B7ZLM7
Molecular Weight	56,919 Da
NCBI Official Full Name	angiopoietin-2
NCBI Official Synonym Full Names	angiopoietin 2
NCBI Official Symbol	ANGPT2
NCBI Official Synonym Symbols	ANG2; AGPT2
NCBI Protein Information	angiopoietin-2; ANG-2; Tie2-ligand; angiopoietin-2B; angiopoietin-2a
UniProt Protein Name	Angiopoietin-2
UniProt Gene Name	ANGPT2
UniProt Synonym Gene Names	ANG-2
UniProt Entry Name	ANGP2_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/angiopoietin-2/58913>