

Human Angiopoietin-2 ELISA Kit | ANGPT2 elisa kit

Human Angiopoietin-2 PicoKine ELISA Kit

CATALOG #
AAA45798

REACTIVITY
Human

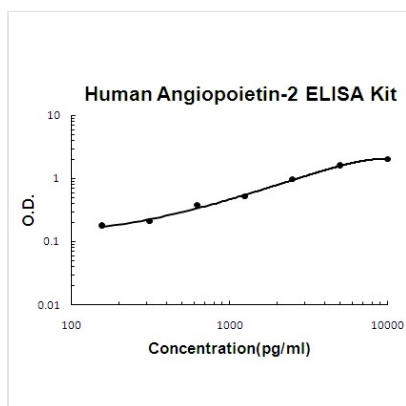
PRODUCT SYNONYMS

Angiopoietin-2; Human Angiopoietin-2 PicoKine ELISA Kit; angiopoietin 2; AGPT2; ANG 2; ANG-2; ANG2; Angiopoietin 2a; Angiopoietin 2B; Angiopoietin2; ANGPT2_HUMAN; ANGPT 2; Angpt2; Tie2 ligand; ANGPT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Angiopoietin-2
Sequence Length	496
Samples	Cell culture supernates, serum, plasma (heparin, EDTA), saliva and human milk
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
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



Standard Curve (Sample)

Human Angiopoietin-2 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for ANGPT2 elisa kit	Principle of the assay: human Angiopoietin-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Angiopoietin-2 has been precoated onto 96-well plates. Standards(NSO,Y19-F496) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Angiopoietin-2 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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 human Angiopoietin-2 amount of sample captured in plate. Background: Angiopoietin 1 and Angiopoietin 2 are important for development of the endothelium, by regulating tyrosine phosphorylation of the membrane receptor Tie 2. Angiopoietin 2 is only 60% homologous with Angiopoietin 1. Angiopoietin-2 is a naturally occurring antagonist of angiopoietin-1 that competes for binding to the TIE2 receptor and blocks ANGPT1-induced TIE2 autophosphorylation. Angiopoietin 1 binding to Tie 2 causes phosphorylation of the receptor. Angiopoietin 2 competes for this binding, and thus blocks receptor phosphorylation. Angiopoietin 2 expression occurs at sites of vascular remodelling: dorsal aorta and major aortic branches, ovary, placenta and uterus.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	12229555
NCBI GeneID	285
UniProt Accession #	O15123; Q9NRR7; Q9P2Y7; A0AV38; A8K205; B7ZLM7
Molecular Weight	56,848 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.