

Human Angiopoietin-2/Ang2 ELISA Kit | Ang2 elisa kit

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CATALOG #
AAA258376

REACTIVITY
Human

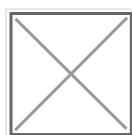
PRODUCT SYNONYMS

Angiopoietin-2/Ang2; Human Angiopoietin-2/Ang2 ELISA Kit; Angiopoietin-2 ELISA Kit; Human; angiopoietin 2; AGPT2 ELISA Kit; ANG2 ELISA Kit; Ang2 elisa kit

PRODUCT SPECIFICATIONS

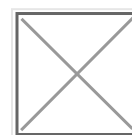
Reactivity	Human
Specificity	For the quantitative determination of Human Angiopoietin-2/Ang2 concentration in serum and plasma.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Plasma
Detection Range	78.13-5000pg/mL
Sensitivity	49.41pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant human Ang2 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

IMAGES



Application Data

This assay recognizes both recombinant and natural Human Ang2. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for Ang2 elisa kit	This Angiopoietin-2 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human Angiopoietin-2 protein in Serum, Plasma. It contains recombinant Human Angiopoietin-2, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Angiopoietin-2 (ANG 2, or ANGPT2), is a member of the ANG family, which plays an important role in angiogenesis during the development and growth of human cancers. Both ANGPT-1 and ANGPT-2 appear to bind to the tyrosine kinase receptor, Tie-2, found primarily on the luminal surface of endothelial cells. ANG-2's role in angiogenesis generally is considered as an antagonist for ANG1, inhibiting ANG1-promoted Tie2 signaling, which is critical for blood vessel maturation and stabilization. ANG-2 modulates angiogenesis in a cooperative manner with another important angiogenic factor, vascular endothelial growth factor A. Genetic studies have revealed that ANG-2 also is critical in lymphangiogenesis during development. ANG-2 has multiple physiologic effects that regulate vascular tone, hormone secretion, tissue growth and neural activity. Several reports indicate that ANG-2 can induce neovascularization in experimental systems due to the expression of different growth factors such as angiopoietin 2, vascular endothelial factor, and its receptor, fibroblast growth factor, platelet derived growth factor, transforming growth factor beta and epidermal growth factor. In addition, ANG-2 is strongly expressed in the vasculature of many tumors and it has been suggested that ANG-2 may act synergistically with other cytokines such as vascular endothelial growth factor to promote tumor-associated Angiogenesis and tumor progression.
References	Thomas M, et al. (2009) The role of the Angiopoietins in vascular morphogenesis. Angiogenesis. 12(2): 125-37. Hu B, et al. (2009) Angiopoietin-2: development of inhibitors for cancer therapy. Curr Oncol Rep. 11(2): 111-6. Fiedler U, et al. (2006) Angiopoietins: a link between angiogenesis and inflammation. Trends Immunol. 27: 552-8. Escobar E, et al. (2004) Angiotensin II, cell proliferation and angiogenesis regulator: biologic and therapeutic implications in cancer. Curr Vasc Pharmacol. 2(4): 385-99.

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.