Human Angiopoietin 2,ANG-2 ELISA Kit

Product Code	CSB-E04500h
Abbreviation	ANGPT2
Protein Biological Process 1	Angiogenesis
Target Name	angiopoietin 2
Uniprot No.	O15123
Alias	AGPT2, ANG2, Tie2-ligand|angiopoietin-2|angiopoietin-2B|angiopoietin-2a
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	39 pg/mL-2500 pg/mL
Sensitivity	9.75 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cardiovascular
Gene Names	ANGPT2
Tag Info	quantitative
Protein Description	Sandwich
Description	The human ANGPT2 ELISA Kit is engineered for accurate measurement of human ANGPT2 levels from samples including serum, plasma, or tissue homogenates. It uses the Sandwich-ELISA mechanism in combination with the enzyme-substrate chromogenic reaction to measure the ANGPT2 content in the sample. The color intensity is positively correlated with the ANGPT2 content in the sample. This kit has been validated against standards of sensitivity and specificity. ANGPT2, also termed Ang-2, one of the ligands for Tie2, enhances inflammation and permeability by inhibiting the action of Ang-1. It is involved in the induction of growth, cell migration, and mitosis of vascular smooth muscle cells, as well as elevated production of collagen type I and III in fibroblasts, resulting in thickening of the vascular wall and myocardium, and fibrosis.

	Additionally, Ang-2 also raises blood pressure (BP) primarily through vasoconstriction, sympathetic nervous stimulation, enhanced aldosterone biosynthesis, and renal actions. Ang-2 also participates in the process of atherosclerosis and in the remodeling and repair processes of the myocardium after myocardial infarction. Inhibiting Ang-2 signaling protects against neurodegenerative processes and promotes longevity in rodents.
Target Details	This protein is an antagonist of angiopoietin 1 (ANGPT1) and endothelial TEK tyrosine kinase (TIE-2, TEK). The encoded protein disrupts the vascular remodeling ability of ANGPT1 and may induce endothelial cell apoptosis. Three transcript variants encoding three different isoforms have been found for this gene.
Product Precision	
Linearity	
Recovery	
Typical	
Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E04500h.pdf","filename":"MSDS"}}