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# Datasheet for ABIN1672763 Angiopoietin 2 ELISA Kit

1 Image

1 Publication



#### Overview

Quantity:	96 tests
Target:	Angiopoietin 2 (ANGPT2)
Binding Specificity:	AA 19-496
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Angiopoietin-2			
Brand:	PicoKine™			
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Saliva, Milk			
Analytical Method:	Quantitative			
Detection Method:	Colorimetric			
Immunogen:	Expression system for standard: NSO Immunogen sequence: Y19-F496			
Specificity:	Expression system for standard: NSO Immunogen sequence: Y19-F496			
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.			

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#### Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

## Target Details

Target:	Angiopoietin 2 (ANGPT2)		
Alternative Name:	ANGPT2 (ANGPT2 Products)		
Background:	Protein Function: Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating		
	ANGPT1 signaling. Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of		
	ANGPT1. In the absence of angiogenic inducers, such as VEGF, ANGPT2-mediated loosening o		
	cell-matrix contacts may induce endothelial cell apoptosis with consequent vascular		
	regression. In concert with VEGF, it may facilitate endothelial cell migration and proliferation,		
	thus serving as a permissive angiogenic signal		
	Background: 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 knowr		
	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.		
	Synonyms: Angiopoietin-2,ANG-2,ANGPT2,		
	Full Gene Name: Angiopoietin-2		
	Cellular Localisation: Secreted.		
Gene ID:	285		
UniProt:	015123		
Pathways:	RTK Signaling		
Application Details			
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well		
	assay was recommended for both standard and sample testing.		

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Application Details			
Comment:	Sequence similarities: Contains 1 fibrinogen C-terminal domain.		
Plate:	Pre-coated		
Protocol:	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.		
Assay Procedure:	Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,		
	312pg/mL, 156pg/mL human Angiopoietin-2 standard solutions into the precoated 96-well		
	plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of		
	each properly diluted sample of human cell culture supernates, serum, plasma(heparin, EDTA)		
	saliva or human milk to each empty well. See "Sample Dilution Guideline" above for details. It is		
	recommended that each human Angiopoietin-2 standard solution and each sample be		
	measured in duplicate.		
ssay Precision:	• Sample 1: n=16, Mean(ng/ml): 1.08, Standard deviation: 0.049, CV(%): 4.5		
	<ul> <li>Sample 2: n=16, Mean(ng/ml): 3.49, Standard deviation: 0.181, CV(%): 5.2</li> </ul>		
	<ul> <li>Sample 3: n=16, Mean(ng/ml): 7.01, Standard deviation: 0.407, CV(%): 5.8,</li> <li>Sample 1: n= 0.4 Mean (ng/ml): 1.05, Standard deviation: 0.071, OV(%): 5.8,</li> </ul>		
	<ul> <li>Sample 1: n=24, Mean(ng/ml): 1.05, Standard deviation: 0.071, CV(%): 6.8</li> <li>Sample 2: n=24, Mean(ng/ml): 3.32, Standard deviation: 0.236, CV(%): 7.1</li> </ul>		
	<ul> <li>Sample 3: n=24, Mean(ng/ml): 6.67, Standard deviation: 0.5, CV(%): 7.5</li> </ul>		
Restrictions:	For Research Use only		
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Handling			
Handling Advice:	Avoid multiple freeze-thaw cycles.		
Storage:	-20 °C,4 °C		
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles		
Expiry Date:	12 months		

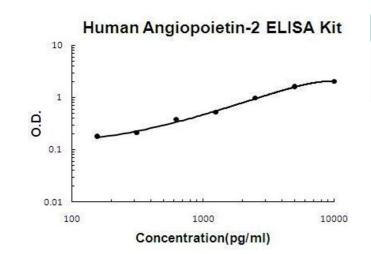
**Application Details** 

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Liu, Zhu, Zhou, Wei, Long, Chen, Ling, Ge, Zhuo: "Endoplasmic reticulum stress promotes amyloid-beta peptides production in RGC-5 cells." in: **Cell stress & chaperones**, Vol. 19, Issue 6, pp. 827-35, (2014) (PubMed).

Peng, Dai, Ji, Dai: "The separate roles of endothelin receptors participate in remodeling of matrix metalloproteinase and connexin 43 of cardiac fibroblasts in maladaptive response to isoproterenol." in: **European journal of pharmacology**, Vol. 634, Issue 1-3, pp. 101-6, (2010) (PubMed).

#### Images



ELISA						
Image	1.	Human	Angiopoietin-2	PicoKine	ELISA	Kit
standard curve						