



[Go to Product page](#)

Datasheet for ABIN5510731
Angiopoietin 2 ELISA Kit

1 Image

2 Publications

Overview

Quantity:	96 tests
Target:	Angiopoietin 2 (ANGPT2)
Binding Specificity:	AA 19-496
Reactivity:	Rat
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat Angiopoietin-2
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: Y19-F496
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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

Target Details

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 of 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 (By similarity). .

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 known 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,Agpt2,

Full Gene Name: Angiopoietin-2

Cellular Localisation: Secreted.

UniProt: [O35462](#)

Pathways: [RTK Signaling](#)

Application Details

Plate: Pre-coated

Restrictions: For Research Use only

Handling

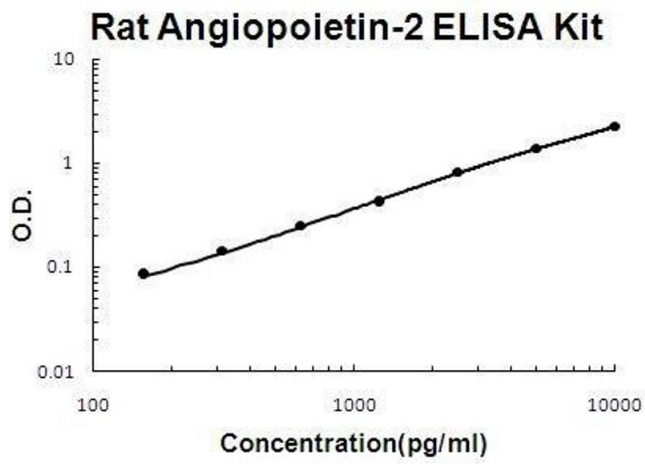
Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months

Publications

Product cited in: Wang, Deng, Wang, Wu, Gu, Jiang, Li: "MicroRNA-155 in exosomes secreted from helicobacter pylori infection macrophages immunomodulates inflammatory response." in: **American journal of translational research**, Vol. 8, Issue 9, pp. 3700-3709, (2016) ([PubMed](#)).



ELISA

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