

Product datasheet

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ARG81875 Mouse Angiopoietin 1 ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81875-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81875-002	Standard	2 X 10 ng/vial	4°C
ARG81875-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81875-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG81875-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81875-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG81875-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81875-008	25X Wash buffer	20 ml	4°C
ARG81875-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81875-010	STOP solution	10 ml (Ready to use)	4°C
ARG81875-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81875 Mouse Angiopoietin 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Angiopoietin 1 in serum, plasma (heparin, EDTA) and cell culture supernatants.			
Tested Reactivity	Ms			
Tested Application	ELISA			
Specificity	There is no detectable cross-reactivity with other relevant proteins.			
Target Name	Angiopoietin 1			
Conjugation	HRP			
Conjugation Note	Substrate: TMB and read at 450 nm.			
Sensitivity	78 pg/ml			
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.			
Standard Range	156 - 10000 pg/ml			
Sample Volume	100 μΙ			

Precision Intra-Assay CV: 6.1%; Inter-Assay CV: 7.0%

Alternate Names AGP1; Angiopoietin-1; ANG-1; AGPT; ANG1

Application Instructions

Assay Time

~ 5 hours

Properties

Form

96 well

Storage instruction

Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

ANGPT1

Gene Full Name

angiopoietin 1

Background

This gene encodes a secreted glycoprotein that belongs to the angiopoietin family. Members of this family play important roles in vascular development and angiogenesis. All angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. The protein encoded by this gene is a secreted glycoprotein that activates the receptor by inducing its tyrosine phosphorylation. It plays a critical role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme and inhibits endothelial permeability. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the heart. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2015]

Function

Binds and activates TEK/TIE2 receptor by inducing its dimerization and tyrosine phosphorylation. Plays an important role in the regulation of angiogenesis, endothelial cell survival, proliferation, migration, adhesion and cell spreading, reorganization of the actin cytoskeleton, but also maintenance of vascular quiescence. Required for normal angiogenesis and heart development during embryogenesis. After birth, activates or inhibits angiogenesis, depending on the context. Inhibits angiogenesis and promotes vascular stability in quiescent vessels, where endothelial cells have tight contacts. In quiescent vessels, ANGPT1 oligomers recruit TEK to cell-cell contacts, forming complexes with TEK molecules from adjoining cells, and this leads to preferential activation of phosphatidylinositol 3-kinase and the AKT1 signaling cascades. In migrating endothelial cells that lack cell-cell adhesions, ANGT1 recruits TEK to contacts with the extracellular matrix, leading to the formation of focal adhesion complexes, activation of PTK2/FAK and of the downstream kinases MAPK1/ERK2 and MAPK3/ERK1, and ultimately to the stimulation of sprouting angiogenesis. Mediates blood vessel maturation/stability. Implicated in endothelial developmental processes later and distinct from that of VEGF. Appears to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme. [UniProt]

Highlight

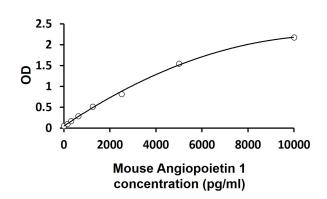
Related products:

Angiopoietin antibodies; Angiopoietin ELISA Kits;

New ELISA data calculation tool: Simplify the ELISA analysis by GainData

PTM

Glycosylated. [UniProt]



ARG81875 Mouse Angiopoietin 1 ELISA Kit standard curve image

ARG81875 Mouse Angiopoietin 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.