ARG54810
anti-Angiopoietin 2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Angiopoietin 2
Tested Reactivity	Hu, Ms
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Angiopoietin 2
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 404-432 (C-terminus) of Human Angiopoietin 2.
Conjugation	Un-conjugated
Alternate Names	ANG-2; Angiopoietin-2; ANG2; AGPT2

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:50
IHC-P	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Mouse kidney

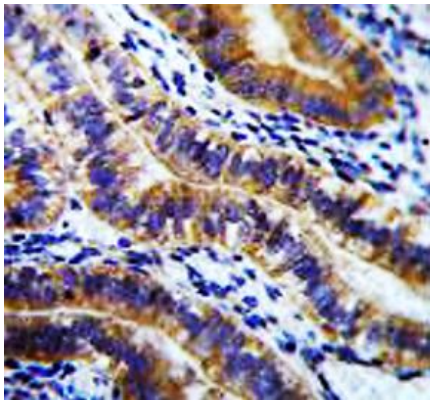
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

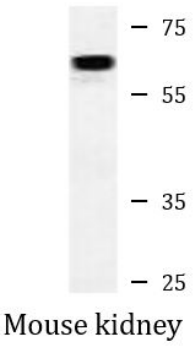
Database links	GeneID: 11601 Mouse GeneID: 285 Human Swiss-port # O15123 Human Swiss-port # O35608 Mouse
Gene Symbol	ANGPT2
Gene Full Name	angiopoietin 2
Background	The protein encoded by this gene is an antagonist of angiopoietin 1 (ANGPT1) and endothelial TEK tyrosine kinase (TIE-2, TEK). The encoded 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. [provided by RefSeq, Jul 2008]
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 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. [UniProt]
Research Area	Cell Biology and Cellular Response antibody
Calculated Mw	57 kDa
Cellular Localization	Secreted.

Images



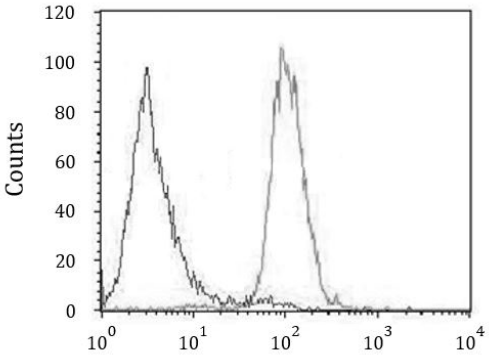
ARG54810 anti-Angiopoietin 2 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human uterus tissue stained with ARG54810 anti-Angiopoietin 2 antibody.



ARG54810 anti-Angiopoietin 2 antibody WB image

Western blot: 35 µg of Mouse kidney lysate stained with ARG54810 anti-Angiopoietin 2 antibody.



ARG54810 anti-Angiopoietin 2 antibody FACS image

Flow Cytometry: A549 cells stained with ARG54810 anti-Angiopoietin 2 antibody (right histogram) or without primary antibody control (left histogram), followed by incubation with FITC labelled secondary antibody.