ARG54915
anti-Angiopoietin 2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Angiopoietin 2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, IHC, WB
Specificity	At least three isoforms of ANGPT2 are known to exist; this antibody will detect all three isoforms.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Angiopoietin 2
Species	Human
Immunogen	Synthetic peptide (18 aa) within the last 50 aa of Human ANGPT2.
Conjugation	Un-conjugated
Alternate Names	ANG-2; Angiopoietin-2; ANG2; AGPT2

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent
IHC	2.5 µg/ml
WB	1 - 2 µg/ml

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

Positive Control: Human Liver Tissue Lysate

Properties

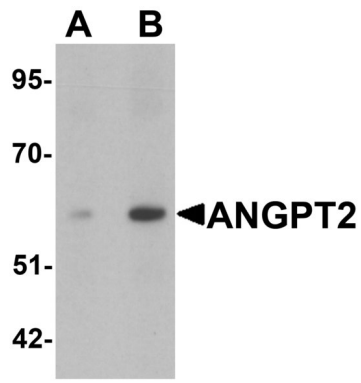
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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

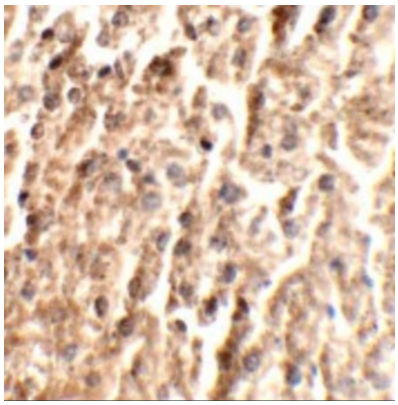
Gene Symbol	ANGPT2
Gene Full Name	angiopoietin 2
Background	ANGPT2 Antibody: Angiopoietin-2 (ANGPT2) is a member of the Ang family, a family of angiogenic factors that play major roles in angiogenesis during the development and growth of human cancers, but also during lymphangiogenesis. ANGPT2 is generally considered an antagonist of ANGPT1 and endothelial TEK tyrosine kinase (TIE-2, TEK). ANGPT2 disrupts the vascular remodeling ability of ANGPT1 and is thought to induce endothelial cell apoptosis, resulting in vessel regression. Expression of ANGPT2 has been linked to invasive and metastatic phenotypes of gliomas and other cancers.
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

Images



ARG54915 anti-Angiopoietin 2 antibody WB image

Western blot: Human liver tissue lysate stained with ARG54915 anti-Angiopoietin 2 antibody at (A) 1 and (B) 2 ug/ml dilution.



ARG54915 anti-Angiopoietin 2 antibody IHC image

Immunohistochemistry: ANGPT2 in Mouse liver tissue stained with ARG54915 anti-Angiopoietin 2 antibody at 2.5 ug/ml dilution.