

**Angiopoietin 4 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54315****Specification****Angiopoietin 4 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q9Y264</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ANGPT4
Epitope Specificity	410-503/503
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted (Probable).
SIMILARITY	Contains 1 fibrinogen C-terminal domain.
SUBUNIT	Homodimer; disulfide-linked. Interacts with TEK/TIE2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

Angiopoietin 4 is a glycosylated protein with a fibrinogen C terminal domain. It is induced under hypoxic conditions in endothelial cells and is the target of peroxisome proliferation activators. Angiopoietin 4 is a serum hormone directly involved in regulating glucose homeostasis, lipid metabolism, and insulin sensitivity and also acts as an apoptosis survival factor for vascular endothelial cells. It may play a role in several cancers and it also has been shown to prevent the metastatic process by inhibiting vascular activity as well as tumor cell motility and invasiveness. Decreased expression of this protein has been associated with type 2 diabetes. Alternatively spliced transcript variants encoding different isoforms have been described

**Angiopoietin 4 Polyclonal Antibody - Additional Information****Gene ID** 51378**Other Names**

Angiopoietin-4, ANG-4, Angiopoietin-3, ANG-3, ANGPT4, ANG3, ANG4

**Target/Specificity**

Highly expressed in the lung with much lower levels found in other tissues.

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**Angiopoietin 4 Polyclonal Antibody - Protein Information**

**Name** ANGPT4

**Synonyms** ANG3, ANG4

**Function**

Binds to TEK/TIE2, modulating ANGPT1 signaling. Can induce tyrosine phosphorylation of TEK/TIE2. Promotes endothelial cell survival, migration and angiogenesis.

**Cellular Location**

Secreted.

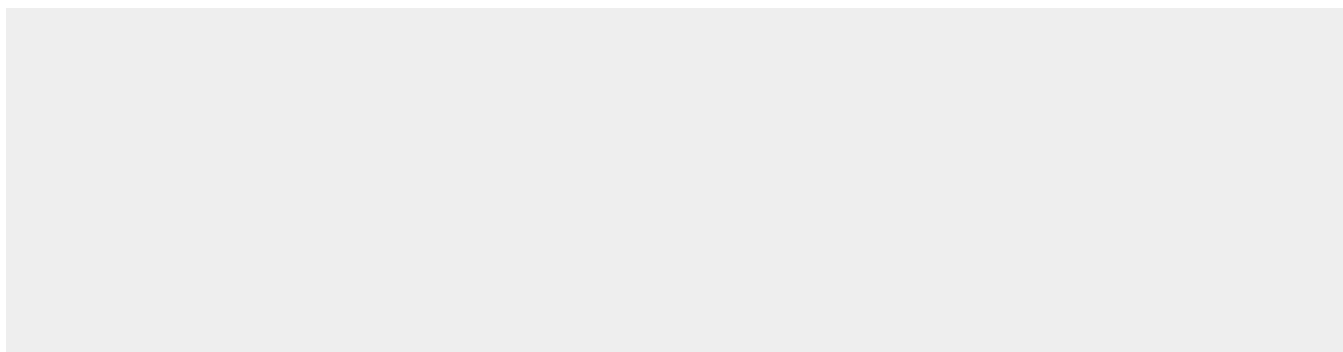
**Tissue Location**

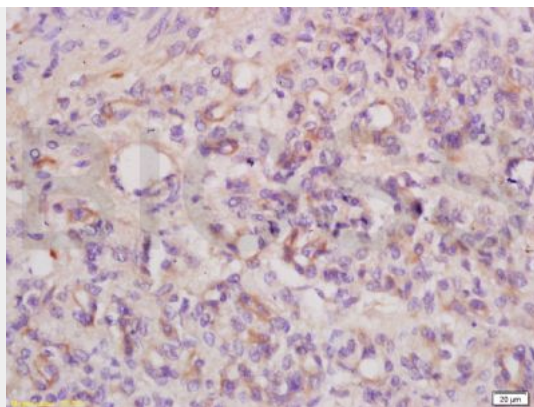
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**Angiopoietin 4 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

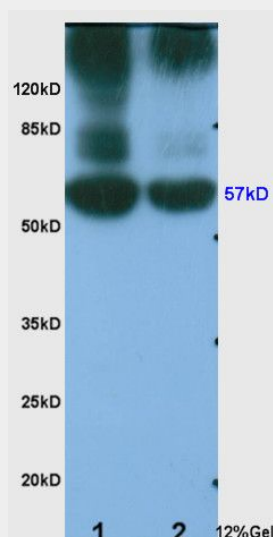
**Angiopoietin 4 Polyclonal Antibody - Images**



Tissue/cell: mouse tumor tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ANGPT3/ANG3/ANGPT4/ANG4 Polyclonal Antibody, Unconjugated(bs-1087R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Sample:

Lung (Mouse) Lysate at 30 ug

Lung (Rat) Lysate at 30 ug

Primary: Anti- Anti-ANGPT3/ANG3/ANGPT4/ANG4 (bs-1087R) at 1/400 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/3000 dilution

Predicted band size : 57kD

Observed band size : 57kD