

Rabbit Anti-Angiopoietin 2 antibody

SL0677R

Product Name	Angiopoietin 2
Chinese Name	血管生成素 2 抗体
Alias	AGPT 2; AGPT-2; Agpt2; ANG 2; ANG2; ANG-2; Angiopoietin 2a; Angiopoietin 2B; Angiopoietin2; Angiopoietin-2; ANGPT 2; ANGPT2; Tie2 ligand; ANGP2_HUMAN.
Research Area	Tumour Cardiovascular Growth factors and hormones
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human (predicted:Mouse,Rat,Chicken,Dog,Pig) WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Applications	
Theoretical molecular weight	53kDa
Cellular localization	Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Angiopoietin 2: 401-496/496
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

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.

Subunit:

Interacts with TEK/TIE2, competing for the same binding site as ANGPT1.

Subcellular Location:

Secreted.

**Product
Detail**

Similarity:

Contains 1 fibrinogen C-terminal domain.

SWISS:

O15123

Gene ID:

285

Database links:

[Entrez Gene: 285](#) Human

[Entrez Gene: 11601](#) Mouse

[Entrez Gene: 89805](#) Rat

[Omim: 601922](#) Human

[SwissProt: O15123](#) Human

[SwissProt: O35608](#) Mouse

[SwissProt: O35462](#) Rat

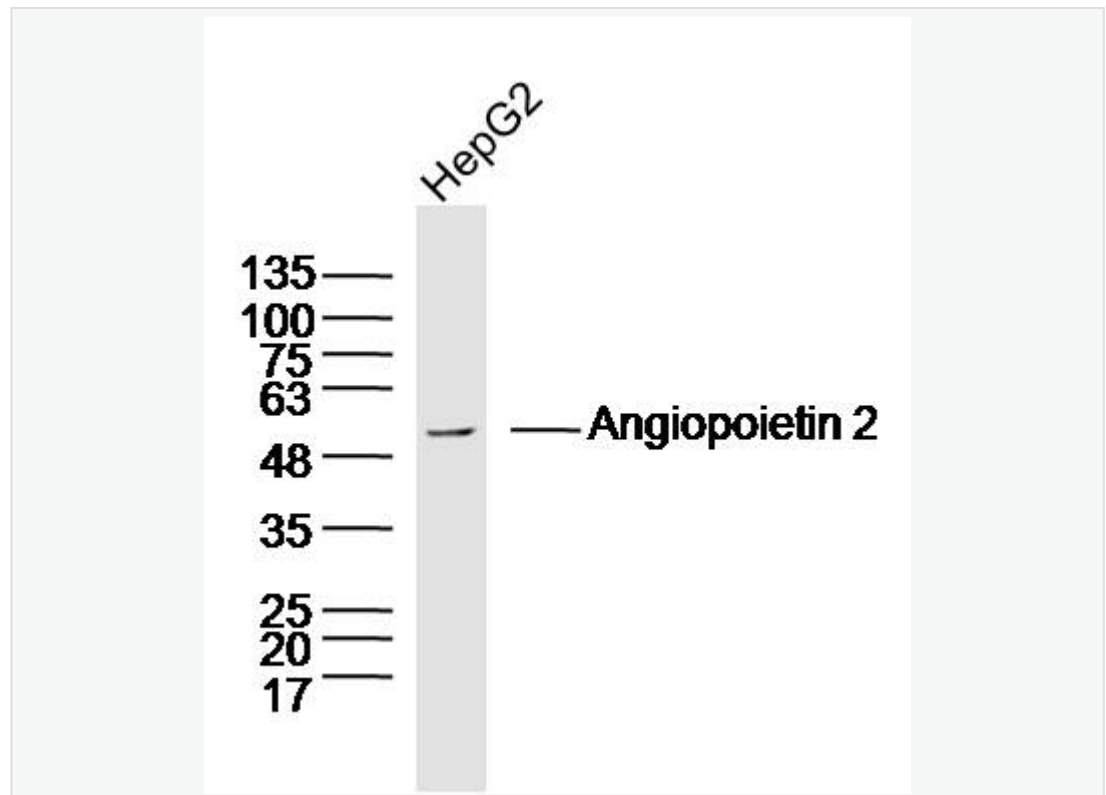
[Unigene: 583870](#) Human

[Unigene: 439874](#) Mouse

[Unigene: 138360](#) Rat

血管生成素 2(angiotensin-2, Ang-2)是 Ang 家族的成员之一,是特异性血管生成刺激因子,也是恶性 Tumour 早期的标志分子.

Product
Picture



Sample:

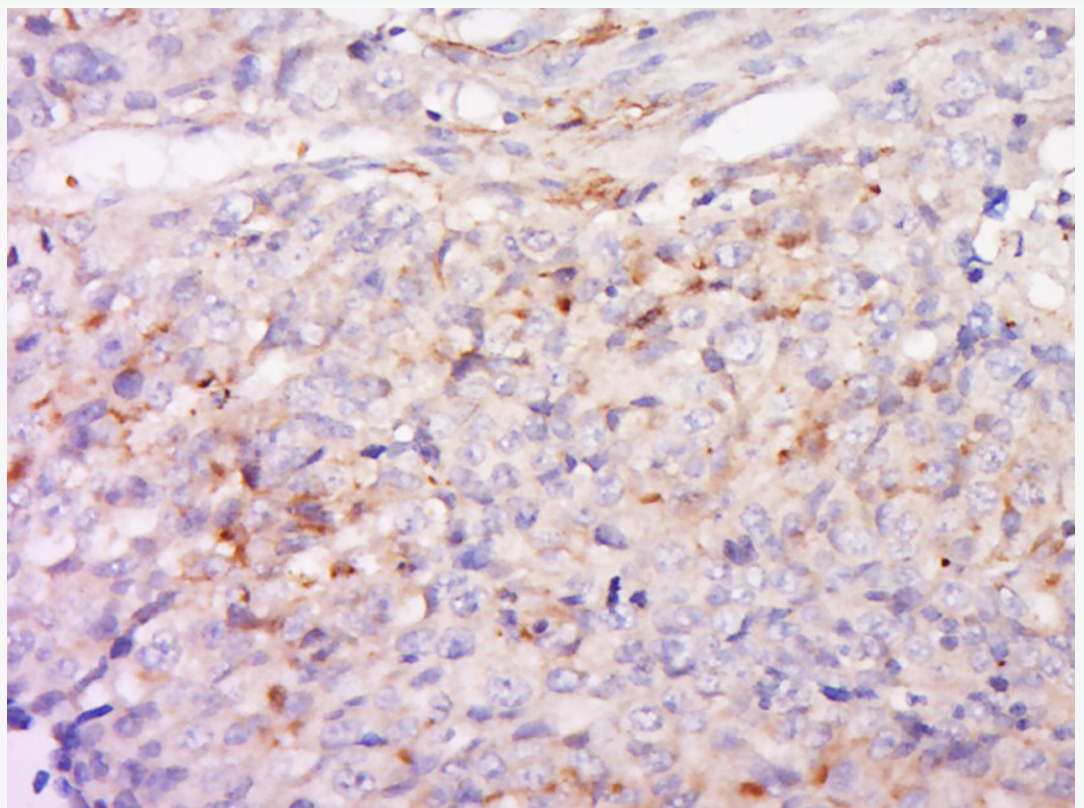
HepG2(Human) Cell Lysate at 30 ug

Primary: Anti-Angiotensin 2 (SL0677R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 53 kD



Tissue/cell: human colon cancer; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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-Ang2 Polyclonal Antibody, Unconjugated(SL0677R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and



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