



## Product Information Sheet

### Polyclonal Anti-Angiopoietin-2, **ANG2**

**Catalogue No.** PA1005

**Lot No.** 0101012190595

**Ig type:** rabbit IgG

**Size:** 100µg/vial

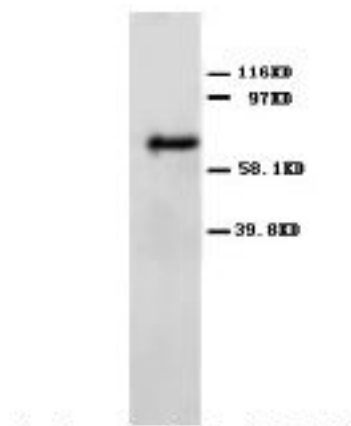
#### Specificity

Human, rat.

No cross reactivity with other proteins.

#### Recommended application

Western blot



#### Immunogen

A synthetic peptide corresponding to a sequence mapping near the C-terminal of human Angiopoietin-2 (482-496aa), identical to the related rat and mouse sequence.

#### Purity

Immunogen affinity purified.

#### Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

#### Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

#### Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

#### Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

**Antagene, Inc.**

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## BACKGROUND

Angiopoietin 1 and Angiopoietin 2 are important for development of the endothelium, by regulating tyrosine phosphorylation of the membrane receptor Tie 2. Angiopoietin 2 is only 60% homologous with Angiopoietin 1. Angiopoietin-2 is a naturally occurring antagonist of angiopoietin-1 that competes for binding to the TIE2 receptor and blocks ANGPT1-induced TIE2 autophosphorylation. Angiopoietin 1 binding to Tie 2 causes phosphorylation of the receptor. Angiopoietin 2 competes for this binding, and thus blocks receptor phosphorylation. Angiopoietin 2 expression occurs at sites of vascular remodelling: dorsal aorta and major aortic branches, ovary, placenta and uterus.

## REFERENCE

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2. Maisonpierre, P. C.; Suri, C.; Jones, P. F.; Bartunkova, S.; Wiegand, S. J.; Radziejewski, C.; Compton, D.; McClain, J.; Aldrich, T. H.; Papadopoulos, N.; Daly, T. J.; Davis, S.; Sato, T. N.; Yancopoulos, G. D. : Angiopoietin-2, a natural antagonist for Tie2 that disrupts in vivo angiogenesis. *Science* 277: 55-60, 1997.
3. Ward, E. G.; Grosios, K.; Markham, A. F.; Jones, P. F. : Genomic structures of the human angiopoietins show polymorphism in angiopoietin-2. *Cytogenet. Cell Genet.* 94: 147-154, 2001.