

Product datasheet for **AP23297PU-N**

Angpt2 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: At 1-2µg/ml with the appropriate system to detect ANG2 in cells and tissues. Immunohistochemistry on Paraffin Sections: At 1-2µg/ml to detect ANG2 in formalin fixed and paraffin embedded.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a sequence mapping near the C-terminal (454-468) of Human Angiopoietin-2.
Specificity:	This antibody detects Angiopoietin-2 near C-term. No cross reactivity with other proteins.
Formulation:	0.9mg NaCl, 0.2mg Na ₂ HPO ₄ State: Aff - Purified State: Lyophilized purified Ig fraction Stabilizer: 5mg BSA Preservative: 0.05mg Thimerosal, 0.05mg Sodium Azide
Reconstitution Method:	0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	angiopoietin 2
Database Link:	Entrez Gene 285 Human Entrez Gene 89805 Rat Entrez Gene 11601 Mouse O35608



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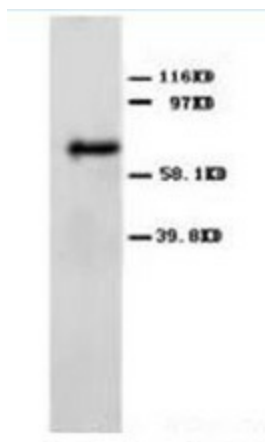
Background:

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.

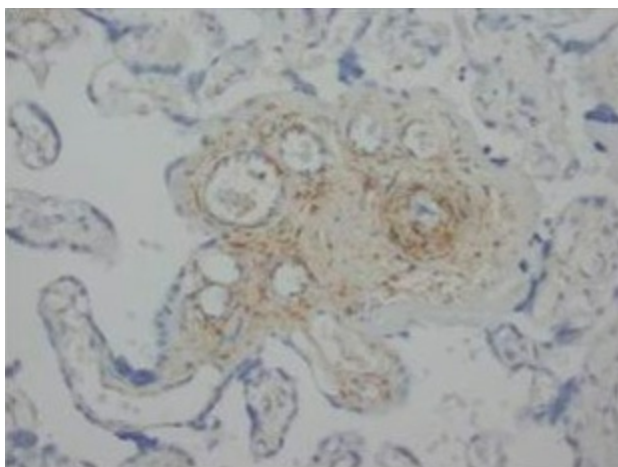
Synonyms:

ANG-2, ANG2, ANGPT2

Product images:



Western blot analysis of rat brain tissue lysis using ANG2 antibody



Immunohistochemical analysis of paraffin embedded Human placenta sections using ANG2 antibody