

Datasheet for ABIN95113  
**anti-Angiopoietin 2 antibody (N-Term)**



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Overview

Quantity:	200 µL
Target:	Angiopoietin 2 (ANGPT2)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiopoietin 2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This whole rabbit serum was prepared by repeated immunizations with a synthetic peptide, corresponding to a region near the N-terminus of mouse angiopoietin-2 protein, conjugated to KLH using maleimide. Immunogen Type: Peptide
Specificity:	This antiserum is directed against mouse angiopoietin-2 and shows no reactivity with angiopoietin-1 from mouse-derived proteins. A 75 kDa band is detected when assayed by immunoblot. This reagent cross-reacts with human angiopoietin-2. Partially cross-reactivity is noted with human angiopoietin-1.
Characteristics:	Anti Angiopoietin-2 Antibody recognizes Angiopoietin-2 (Ang-2) that has importance in development of the endothelium through regulation of tyrosine phosphorylation of the membrane receptor Tie-2/Tek. Ang-1 binding to Tie-2/Tek causes phosphorylation of the receptor. Ang-2 competes for this binding and thus blocks receptor phosphorylation. Ang-2

## Product Details

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expression occurs at sites of vascular remodelling: dorsal aorta and major aortic branches, ovary, placenta and uterus.

Sterility: Sterile filtered

## Target Details

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Target: Angiotensin 2 (ANGPT2)

Alternative Name: Angiotensin 2 ([ANGPT2 Products](#))

Background: Anti Angiotensin-2 Antibody recognizes Angiotensin-2 (Ang-2) that has importance in development of the endothelium through regulation of tyrosine phosphorylation of the membrane receptor Tie-2/Tek. Ang-1 binding to Tie-2/Tek causes phosphorylation of the receptor. Ang-2 competes for this binding and thus blocks receptor phosphorylation. Ang-2 expression occurs at sites of vascular remodelling: dorsal aorta and major aortic branches, ovary, placenta and uterus.

Synonyms: AGPT 2 antibody, Agpt2 antibody, ANG 2 antibody, ANG2 antibody, Angiotensin 2a antibody, Angiotensin 2B antibody, Angiotensin2 antibody, ANGPT 2 antibody, ANGPT2 antibody, Tie2 ligand antibody

Gene ID: 11601

UniProt: [O35608](#)

Pathways: [RTK Signaling](#)

## Application Details

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Application Notes: Angiotensin 2 Antibody is suitable for western blotting and other antibody based assays. A 1:500 dilution is recommended for western blotting. The reaction of this antiserum directly with cell supernatants may result in high background due to reactivity of components in the serum. This can be alleviated by first immunoprecipitating the antibody:antigen complex and then detecting the antigen. This method results in a very clean, strong signal.

Comment: Gene Name: ANG-2

Restrictions: For Research Use only

## Handling

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Format: Liquid

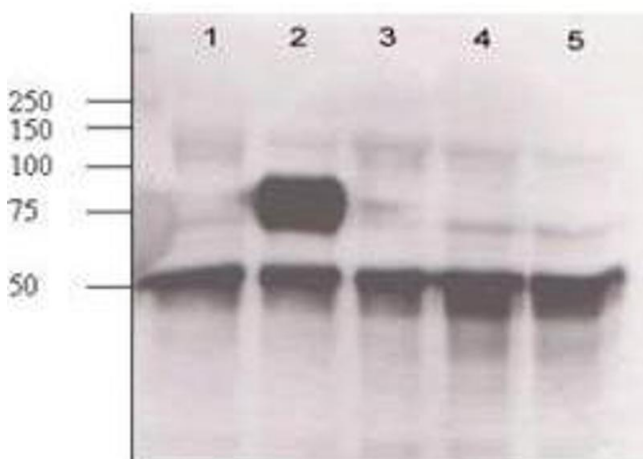
## Handling

Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Expiry Date:	12 months

## Publications

Product cited in:	<p>Câmpean, Karpe, Haas, Atalla, Peters, Rupprecht, Liebner, Acker, Plate, Amann: "Angiopoietin 1 and 2 gene and protein expression is differentially regulated in acute anti-Thy1.1 glomerulonephritis." in: <b>American journal of physiology. Renal physiology</b>, Vol. 294, Issue 5, pp. F1174-84, (2008) (<a href="#">PubMed</a>).</p> <p>Davis, Aldrich, Jones, Acheson, Compton, Jain, Ryan, Bruno, Radziejewski, Maisonpierre, Yancopoulos: "Isolation of angiopoietin-1, a ligand for the TIE2 receptor, by secretion-trap expression cloning." in: <b>Cell</b>, Vol. 87, Issue 7, pp. 1161-9, (1997) (<a href="#">PubMed</a>).</p>
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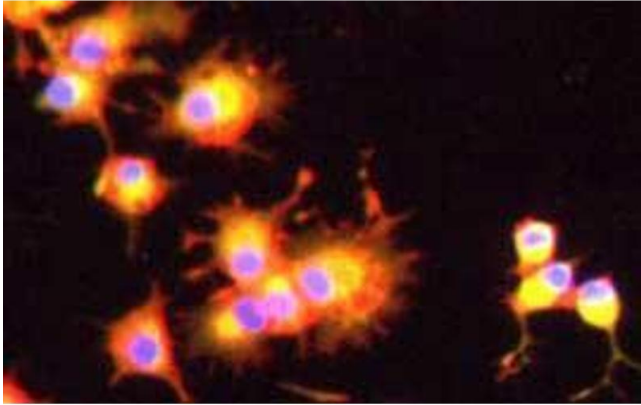
## Images



### Western Blotting

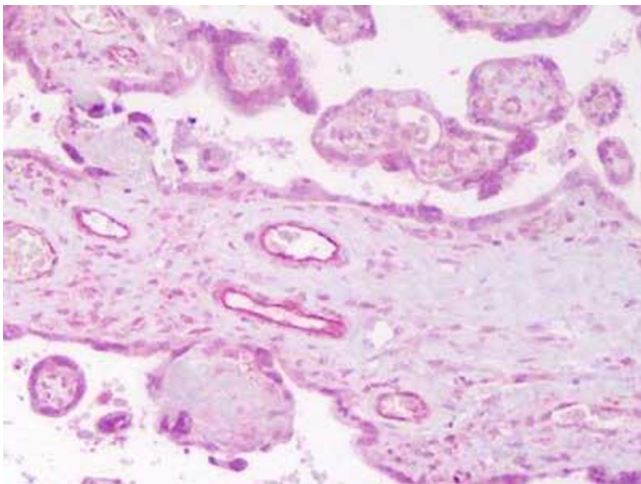
**Image 1.** Rabbit anti-Ang-2 was used at a 1:500 dilution to detect mouse Ang-2 in supernatants of mouse-angiopoietin-expressing endothelial cells. Lane 1 - mock endothelial cells. Lane 2 - mouse Ang-2 (clone 2-9) expressing cells. Lane 3 - mouse Ang-1 (clone 1-15) expressing cells. Lane 4 - mouse Ang-1 (clone 1-8) expressing cells. Lane 5 - wt endothelial cells. Approximately 20 µg of each lysate was loaded for 10% SDS-PAGE. Immunoprecipitation preceded reaction

with primary antibody at room temperature for 1 h. After subsequent washing, a 1:5,000 dilution of HRP conjugated Gt-a-Rabbit IgG preceded color development.



#### Immunofluorescence

**Image 2.** Immunocytochemistry of anti-ANG2 Antibody in PC12 cells Tissue: Human prostate cancer cell line (PC12) Fixation: 5 min in 100% methanol Ag Retrieval/permeabilization: 1hr 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween Primary antibody: 1:200 dilution overnight at +4°C Secondary Ab: 488 Gt anti rabbit 1:1000 1 hr RT Staining: Ang2 stained yellow/green, plasma membranes stained red, cell nuclei stained blue with DAPI (1.43  $\mu$ M)



#### Immunohistochemistry

**Image 3.** Immunohistochemistry of anti-ANG2 Antibody in human placenta Tissue: human placenta Fixation: FFPE buffered formalin 10% conc Ag Retrieval: Heat, Citrate pH 6.2. Pressure Cooker Primary antibody: 2ug/ml 1.5 hour @ room T Secondary Ab: mouse anti rat 1:50 45" RT