abcam

Product datasheet

Anti-Angiopoietin 2/ANG2 antibody ab8452

4 Abreviews 35 References 2 Images

Overview

Product name	Anti-Angiopoietin 2/ANG2 antibody
Description	Rabbit polyclonal to Angiopoietin 2/ANG2
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, ICC/IF, WB
Species reactivity	**Reacts with:** Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab8452 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★☆☆☆☆ (1)	Use at an assay dependent concentration.
ICC/IF	★★★★☆ (1)	1/200.
WB	★★★☆☆ (2)	1/500. There is reaction with serum in the cell supernatants, which results in strong background and makes it difficult to see the angiopoietins in cell supernatants. However when precipitated (using soluble Tie2) the signals are very good and strong.

Target

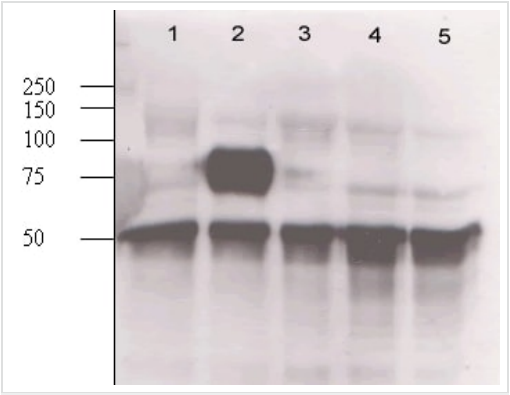
Function
Can induce tyrosine phosphorylation of TIE2. Binds to TIE2 receptor and counteracts blood vessel maturation/stability mediated by angiopoietin-1. Its function may be context-dependent. In the absence of angiogenic inducers, such as VEGF, ANG2-mediated loosening of cell-matrix contacts may induce 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.

Sequence similarities
Contains 1 fibrinogen C-terminal domain.

Domain
The Fibrinogen C-terminal domain mediates interaction with the TEK/TIE2 receptor.

Cellular localization
Secreted.

Images

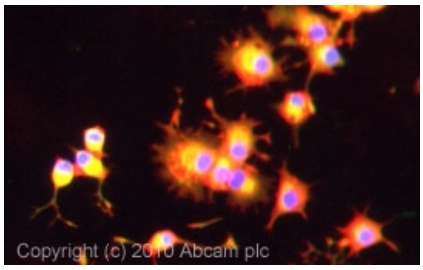


Western blot - Anti-Angiopoietin 2/ANG2 antibody (ab8452)

This image is courtesy of Marion Scharpfenecker 2002

Supernatants of mouse angiopoietin-expressing endothelial cells. Soluble Tie 2 was used to precipitate the angiopoietins to reduce background.

Lane 1 - mock
Lane 2 - mouse angiopoietin-2 (clone 2-9) expressing cells
Lane 3 - mouse angiopoietin-1 (clone 1-15) expressing cells
Lane 4 - mouse angiopoietin-1 (clone 1-8) expressing cells
Lane 5 - wt



Immunocytochemistry/ Immunofluorescence - Anti-Angiopoietin 2/ANG2 antibody (ab8452)

ICC/IF image of ab8452 stained PC12 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab8452, 1/200 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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