


Product datasheet

Anti-Angiopoietin 1 antibody ab95230

★★★★★ 1 Abreviews 10 References 3 Images

Overview

Product name	Anti-Angiopoietin 1 antibody
Description	Rabbit polyclonal to Angiopoietin 1
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse Predicted to work with: Rat, Sheep, Cow, Dog, Human, Pig 
Immunogen	Synthetic peptide corresponding to Mouse Angiopoietin 1 aa 1-100 conjugated to keyhole limpet haemocyanin. (Peptide available as ab109637 , ab134973 , ab9076)
Positive control	This antibody gave a positive signal in both E10 and E11 Mouse embryonic brain tissue lysates and MEF1 cell line.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>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, as well as customer reviews and Q&As.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab95230** in the following tested applications.

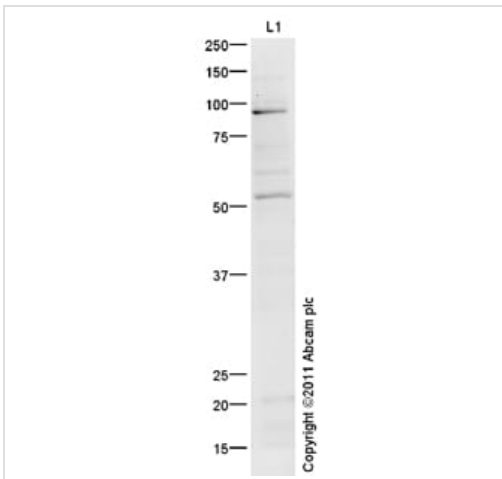
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
WB	★★★★★	Use a concentration of 1 µg/ml. Detects a band of approximately 53 kDa (predicted molecular weight: 57 kDa).

Target

Function	Binds and activates TIE2 receptor by inducing its tyrosine phosphorylation. Implicated in endothelial developmental processes later and distinct from that of VEGF. Appears to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme. Mediates blood vessel maturation/stability. It may play an important role in the heart early development.
Sequence similarities	Contains 1 fibrinogen C-terminal domain.
Post-translational modifications	Glycosylated.
Cellular localization	Secreted.

Images



Western blot - Anti-Angiopoietin 1 antibody (ab95230)

Anti-Angiopoietin 1 antibody (ab95230) at 1 µg/ml + E10 Mouse Embryo Brain Tissue Lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 57 kDa

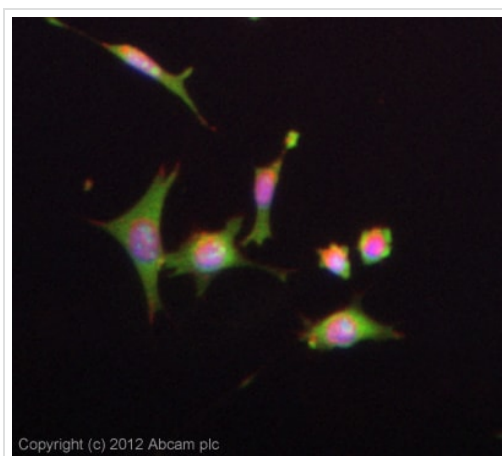
Observed band size: 53 kDa

[why is the actual band size different from the predicted?](#)

Additional bands at: 95 kDa. We are unsure as to the identity of these extra bands.

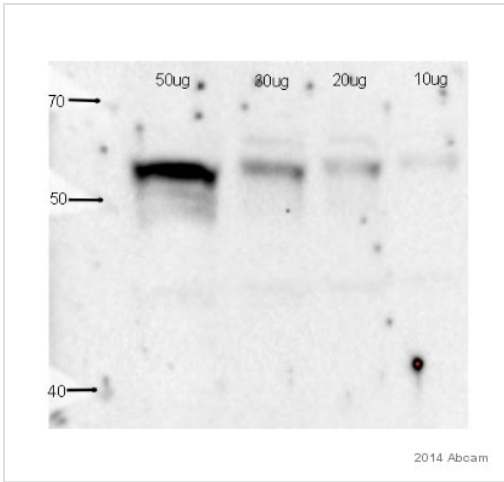
Exposure time: 20 minutes

The band observed at 53 kDa could potentially be a cleaved form of Angiopoietin 1 due to the presence of a 19 amino acid signal peptide. Abcam recommends using milk as the blocking agent. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.



Immunocytochemistry/ Immunofluorescence - Anti-Angiopoietin 1 antibody (ab95230)

ICC/IF image of ab95230 stained MEF1 cells. The cells were 4% formaldehyde fixed (10 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 (ab95230, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 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.



Western blot - Anti-Angiopoietin 1 antibody (ab95230)

This image is courtesy of an anonymous Abreview

All lanes : Anti-Angiopoietin 1 antibody (ab95230) at 1/500 dilution

Lane 1 : Sheep fetal extra-embryonic membrane purified protein at 50 µg

Lane 2 : Sheep fetal extra-embryonic membrane purified protein at 30 µg

Lane 3 : Sheep fetal extra-embryonic membrane purified protein at 20 µg

Lane 4 : Sheep fetal extra-embryonic membrane purified protein at 10 µg

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG monoclonal at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 57 kDa

Observed band size: 57 kDa

Exposure time: 90 seconds

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