

Product datasheet

Anti-Angiopoietin 2/ANG2 antibody [EPR2891(2)] ab155106

Recombinant RabMAb

★★★★☆ 2 Abreviews 12 References 4 Images

Overview

Product name	Anti-Angiopoietin 2/ANG2 antibody [EPR2891(2)]
Description	Rabbit monoclonal [EPR2891(2)] to Angiopoietin 2/ANG2
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, WB Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Angiopoietin 2/ANG2. The exact sequence is proprietary. Database link: O15123
Positive control	WB: Mouse small intestine tissue lysate - total protein (ab7939), TF1, HUVEC and ECV-304 cell lysates. Mouse spleen and rat kidney tissue lysates.
General notes	

This product was previously labelled as Angiopoietin 2

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

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. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR2891(2)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab155106** 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-Fr	★★★★☆	1/500.
WB	★★★★☆	1/1000 - 1/10000. Predicted molecular weight: 57 kDa.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

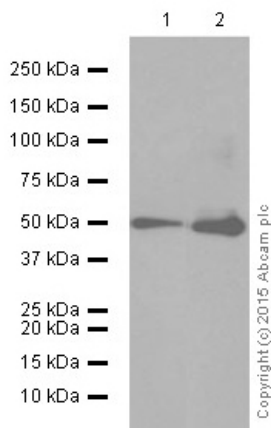
Function Can induce tyrosine phosphorylation of TIE2. Binds to TIE2 receptor and counteracts blood vessel maturation/stability mediated by angiopoietin-1. Its function may be context-dependent. In the absence of angiogenic inducers, such as VEGF, ANG2-mediated loosening of cell-matrix contacts may induce 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 [EPR2891(2)] (ab155106)

All lanes : Anti-Angiopoietin 2/ANG2 antibody [EPR2891(2)] (ab155106) at 1/5000 dilution (purified)

Lane 1 : Mouse spleen tissue lysate

Lane 2 : Rat kidney tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

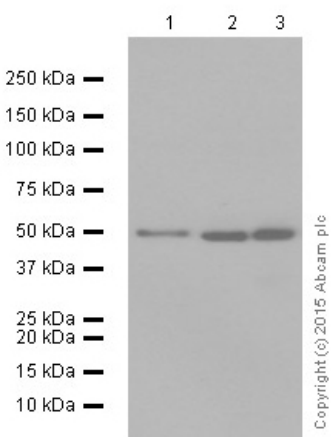
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 57 kDa

Observed band size: 55 kDa

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

Blocking and dilution buffer: 5% NFDM /TBST.



Western blot - Anti-Angiopoietin 2/ANG2 antibody [EPR2891(2)] (ab155106)

All lanes : Anti-Angiopoietin 2/ANG2 antibody [EPR2891(2)] (ab155106) at 1/5000 dilution (purified)

Lane 1 : TF-1 whole cell lysate

Lane 2 : HUVEC whole cell lysate

Lane 3 : ECV-304 whole cell lysate

Lysates/proteins at 20 µg per lane.

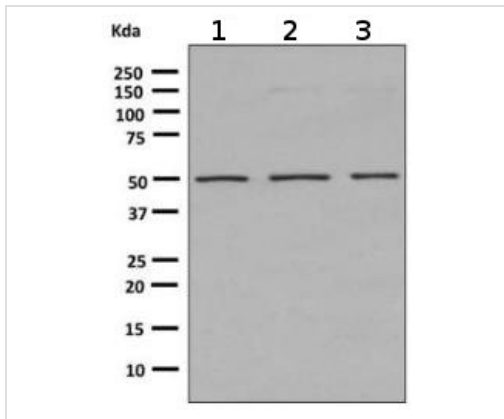
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Observed band size: 55 kDa [why is the actual band size different from the predicted?](#)

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Western blot - Anti-Angiopoietin 2/ANG2 antibody [EPR2891(2)] (ab155106)

All lanes : Anti-Angiopoietin 2/ANG2 antibody [EPR2891(2)] (ab155106) at 1/1000 dilution (unpurified)

Lane 1 : TF1 cell lysate

Lane 2 : HUVEC cell lysate

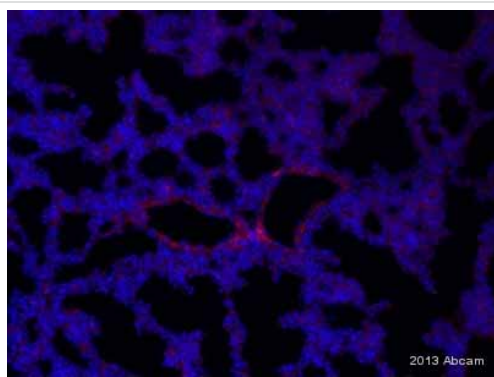
Lane 3 : ECV-304 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 57 kDa



Immunohistochemistry (Frozen sections) - Anti-Angiopoietin 2/ANG2 antibody [EPR2891(2)] (ab155106)

This image is courtesy of an anonymous Abreview

Unpurified ab155106 staining Angiopoietin 2/ANG2 in Mouse fetal lung tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with formaldehyde, permeabilized with PBST for 1 hour and blocked with 1.5% serum for 20 minutes at 25°C. Samples were incubated with primary antibody (1/500 in PBST) for 12 hours at 4°C. A Biotin-conjugated Goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody.

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