




Product datasheet

# Anti-Angiopoietin 2/ANG2 antibody ab231251

2 Images

Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-Angiopoietin 2/ANG2 antibody  |
| <b>Description</b>         | Rabbit polyclonal to Angiopoietin 2/ANG2   |
| <b>Host species</b>        | Rabbit   |
| <b>Tested applications</b> | <b>Suitable for:</b> WB  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse, Human, Pig<br><b>Predicted to work with:</b> Rat, Cow, Dog   |
| <b>Immunogen</b>           | Recombinant fragment (His-T7-tag) corresponding to Pig Angiopoietin 2/ANG2 aa 89-206. (Expressed in E.coli).<br>Sequence:<br><br>NNTQWLMKLESYIQDNMKKEMVEIQQNAVQNQTAVMIEIG<br>TNLLNQTAEQ<br>TRKLTDV EAQVLNQTRLELQ LLEHSLSTNKLEKQILDQTS<br>EINKLQDKN SFLEKKVLDMEDKHIVQL<br><br>Database link: <a href="#">Q9BDY7</a>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> |
| <b>Positive control</b>    | WB: Recombinant pig Angiopoietin 2/ANG2 protein; Pig and mouse brain lysates; K562 cell lysate.  |
| <b>General notes</b>       | This product was previously labelled as Angiopoietin 2   |

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

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.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

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.

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.

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.

## Properties

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|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | pH: 7.40<br>Preservative: 0.02% Sodium azide<br>Constituents: PBS, 50% Glycerol   |
| <b>Purity</b>               | Immunogen affinity purified   |
| <b>Purification notes</b>   | ab231251 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.                  |
| <b>Clonality</b>            | Polyclonal  |
| <b>Isotype</b>              | IgG   |

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab231251** 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   |
|-------------|-----------|---|
| WB          |           | Use a concentration of 0.5 - 5 µg/ml. Predicted molecular weight: 57 kDa. |

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## Target

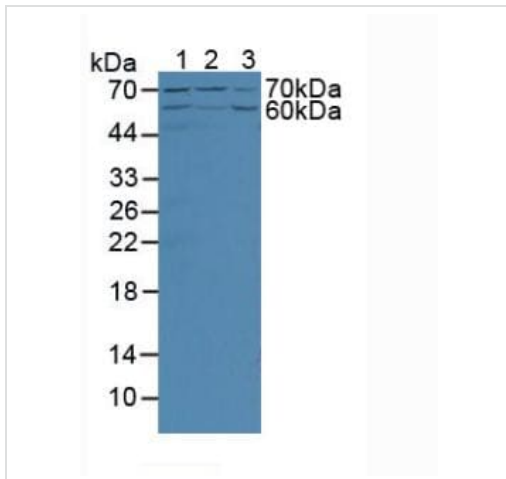
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|                              |  |
|------------------------------|--|
| <b>Function</b>              | Can induce tyrosine phosphorylation of TIE2. Binds to TIE2 receptor and counteracts blood vessel maturation/stability mediated by angiopoietin-1. 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. |
| <b>Sequence similarities</b> | Contains 1 fibrinogen C-terminal domain.   |
| <b>Domain</b>                | The Fibrinogen C-terminal domain mediates interaction with the TEK/TIE2 receptor.  |
| <b>Cellular localization</b> | Secreted.  |

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## Images

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Western blot - Anti-Angiopoietin 2/ANG2 antibody (ab231251)

**All lanes** : Anti-Angiopoietin 2/ANG2 antibody (ab231251) at 3  $\mu\text{g/ml}$

**Lane 1** : Pig brain lysate

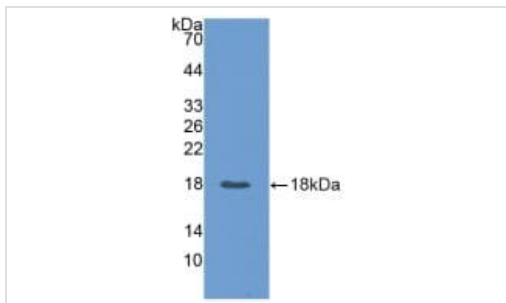
**Lane 2** : Mouse brain lysate

**Lane 3** : K562 (Human chronic myelogenous leukemia cell line from bone marrow) cell lysate

**Secondary**

**All lanes** : HRP-linked Guinea pig Anti-Rabbit at 1/2000 dilution

**Predicted band size:** 57 kDa



Western blot - Anti-Angiopoietin 2/ANG2 antibody (ab231251)

Anti-Angiopoietin 2/ANG2 antibody (ab231251) at 3  $\mu\text{g/ml}$  + Recombinant pig Angiopoietin 2/ANG2 protein

**Secondary**

HRP-Linked Guinea pig Anti-Rabbit at 1/2000 dilution

**Predicted band size:** 57 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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