

Product datasheet

Anti-Nodal antibody [EPR2057] ab109317

Recombinant RabMAb

4 References 3 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-Nodal antibody [EPR2057] |
| Description | Rabbit monoclonal [EPR2057] to Nodal |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, Flow Cyt Unsuitable for: ICC,IHC-P or IP |
| Species reactivity | Reacts with: Rat, Human |
| Immunogen | Synthetic peptide within Human Nodal aa 250-350. The exact sequence is proprietary. |
| Positive control | WB: SH-SY5Y and PC-12 cell lysates Flow Cyto: Permeabilized SH-SY5Y cells |
| General notes | Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information. |

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](#).

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

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| Storage buffer | pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant |
| Purity | Tissue culture supernatant |
| Clonality | Monoclonal |
| Clone number | EPR2057 |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab109317** 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 | | 1/1000 - 1/10000. Predicted molecular weight: 40 kDa. |
| Flow Cyt | | 1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

| | |
|--------------------------|-------------------------------------|
| Application notes | Is unsuitable for ICC, IHC-P or IP. |
|--------------------------|-------------------------------------|

Target

| | |
|-------------------------------|--|
| Function | Essential for mesoderm formation and axial patterning during embryonic development. |
| Involvement in disease | Defects in NODAL are the cause of visceral heterotaxy autosomal type 5 (HTX5) [MIM:270100]. A form of visceral heterotaxy, a complex disorder due to disruption of the normal left-right asymmetry of the thoracoabdominal organs. It results in an abnormal arrangement of visceral organs, and a wide variety of congenital defects. Clinical features of visceral heterotaxy autosomal type 5 include situs inversus viscerum or situs ambiguus, congenital heart defect, transposition of the great vessels ventricular septal defect, atrial septal defect, truncus communis, and dextrocardia. |

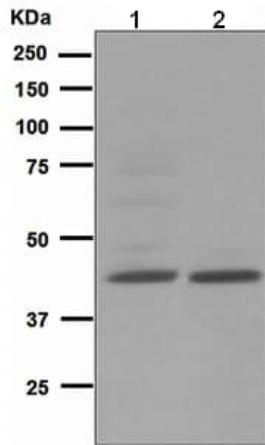
Sequence similarities

Belongs to the TGF-beta family.

Cellular localization

Secreted.

Images



Western blot - Anti-Nodal antibody [EPR2057]
(ab109317)

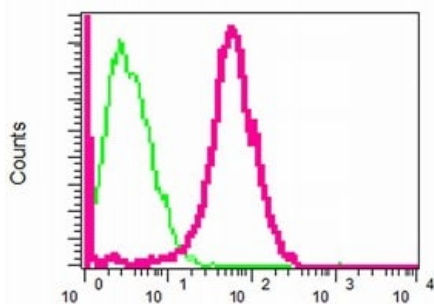
All lanes : Anti-Nodal antibody [EPR2057] (ab109317) at 1/1000 dilution

Lane 1 : SH-SY5Y lysate

Lane 2 : PC12 lysate

Lysates/proteins at 10 μ g per lane.





Predicted band size: 40 kDa



Flow Cytometry - Anti-Nodal antibody [EPR2057]
(ab109317)

Flow cytometric analysis of Nodal in permeabilized SH-SY5Y cells, using ab109317 (red) or a rabbit IgG (negative) (green).

Why choose a recombinant antibody?

| | |
|--|--|
|  <p>Research with confidence Consistent and reproducible results</p> |  <p>Long-term and scalable supply Recombinant technology</p> |
|  <p>Success from the first experiment Confirmed specificity</p> |  <p>Ethical standards compliant Animal-free production</p> |

Anti-Nodal antibody [EPR2057] (ab109317)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors