

Product datasheet

Anti-SMYD1 antibody [EPR13574(B)-30] ab181372

Recombinant RabMAb

1 References 5 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-SMYD1 antibody [EPR13574(B)-30] |
| Description | Rabbit monoclonal [EPR13574(B)-30] to SMYD1 |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, IHC-P, IP Unsuitable for: ICC/IF |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human SMYD1 aa 450 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: Q8NB12 |
| Positive control | Human skeletal muscle and fetal heart lysates; Human heart tissue and skeletal muscle tissues. |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <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> |

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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| 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 | EPR13574(B)-30 |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab181372** in the following tested applications.

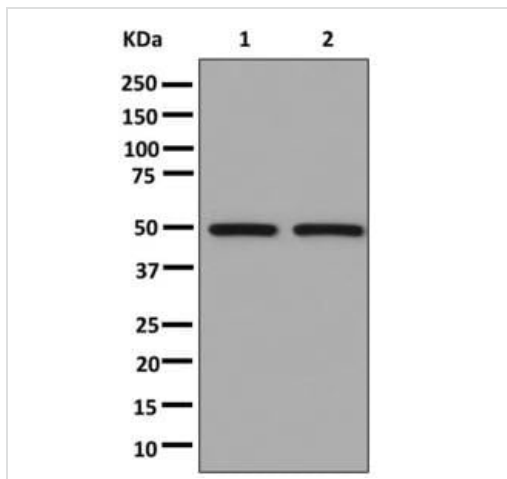
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | 1/1000 - 1/10000. Detects a band of approximately 56 kDa (predicted molecular weight: 57 kDa). |
| IHC-P | | 1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| IP | | 1/10 - 1/100. |

Application notes Is unsuitable for ICC/IF.

Target

| | |
|------------------------------|---|
| Function | Acts as a transcriptional repressor. Essential for cardiomyocyte differentiation and cardiac morphogenesis. |
| Sequence similarities | Contains 1 MYND-type zinc finger. Contains 1 SET domain. |
| Cellular localization | Cytoplasm. Nucleus. |



Western blot - Anti-SMYD1 antibody [EPR13574(B)-30] (ab181372)

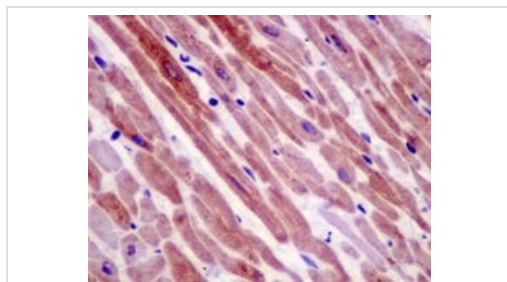
All lanes : Anti-SMYD1 antibody [EPR13574(B)-30] (ab181372) at 1/1000 dilution

Lane 1 : Human fetal heart lysates

Lane 2 : Human skeletal muscle lysates

Lysates/proteins at 10 μ g per lane.

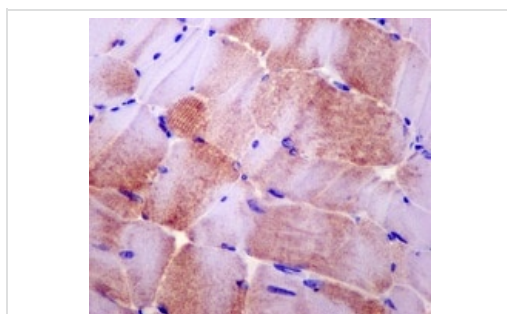
Predicted band size: 57 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SMYD1 antibody [EPR13574(B)-30] (ab181372)

Immunohistochemical analysis of paraffin-embedded Human heart tissue labeling SMYD1 with ab181372 at 1/100 dilution.

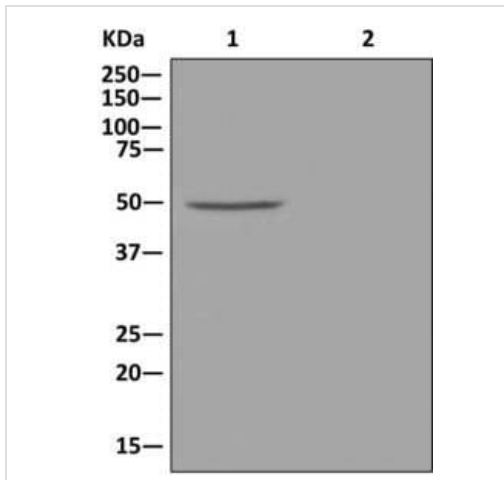
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SMYD1 antibody [EPR13574(B)-30] (ab181372)

Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling SMYD1 with ab181372 at 1/100 dilution.





Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot analysis on immunoprecipitation pellet from (Lane 1) Human fetal heart lysate or (Lane 2) 1XPBS (negative control) immunoprecipitated using ab181372 at 1/10 dilution with HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

Immunoprecipitation - Anti-SMYD1 antibody
[EPR13574(B)-30] (ab181372)

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-SMYD1 antibody [EPR13574(B)-30] (ab181372)

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

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