

Product datasheet

Anti-SAMHD1 antibody [EPR13040(B)] - BSA and Azide free ab240199

KO VALIDATED Recombinant RabMAb[®]

5 Images

Overview

| | |
|----------------------------|--|
| Product name | Anti-SAMHD1 antibody [EPR13040(B)] - BSA and Azide free |
| Description | Rabbit monoclonal [EPR13040(B)] to SAMHD1 - BSA and Azide free |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, Flow Cyt, ICC/IF, IHC-P Unsuitable for: IP |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide within Human SAMHD1 aa 600 to the C-terminus (C terminal) (Cysteine residue). The exact sequence is proprietary. Database link: Q9Y3Z3 |
| General notes | <p>Ab240199 is the carrier-free version of ab177462. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>ab240199 is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm. <i>Maxpar[®] is a trademark of Fluidigm Canada Inc.</i></p> <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</p> |

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 +4°C. Do Not Freeze. |
| Storage buffer | pH: 7.2 Constituent: PBS |
| Carrier free | Yes |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR13040(B) |
| Isotype | IgG |

Applications

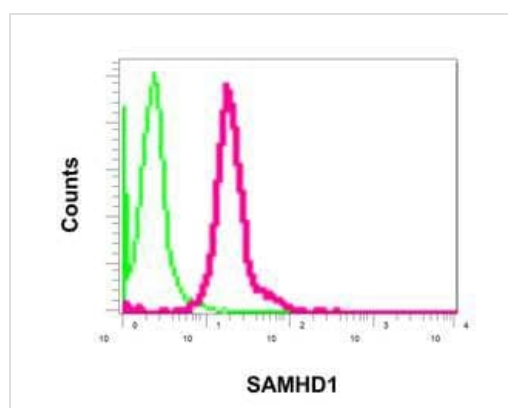
Our [Abpromise guarantee](#) covers the use of **ab240199** in the following tested applications.

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

| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | Use at an assay dependent concentration. Predicted molecular weight: 72 kDa. |
| Flow Cyt | | Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |
| ICC/IF | | Use at an assay dependent concentration. |

| Application | Abreviews | Notes |
|-------------------------------|-----------|---|
| IHC-P | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| Application notes | | Is unsuitable for IP. |
| Target | | |
| Function | | Putative nuclease involved in innate immune response by acting as a negative regulator of the cell-intrinsic antiviral response. May play a role in mediating proinflammatory responses to TNF-alpha signaling. |
| Tissue specificity | | Expressed in heart, skeletal muscle, spleen, liver, small intestine, placenta, lung and peripheral blood leukocytes. No expression is seen in brain and thymus. |
| Involvement in disease | | Defects in SAMHD1 are the cause of Aicardi-Goutieres syndrome type 5 (AGS5) [MIM:612952]. A form of Aicardi-Goutieres syndrome, a genetically heterogeneous disease characterized by cerebral atrophy, leukoencephalopathy, intracranial calcifications, chronic cerebrospinal fluid (CSF) lymphocytosis, increased CSF alpha-interferon, and negative serologic investigations for common prenatal infection. Clinical features as thrombocytopenia, hepatosplenomegaly and elevated hepatic transaminases along with intermittent fever may erroneously suggest an infective process. Severe neurological dysfunctions manifest in infancy as progressive microcephaly, spasticity, dystonic posturing and profound psychomotor retardation. Death often occurs in early childhood. |
| Sequence similarities | | Belongs to the SAMHD1 family. Contains 1 HD domain. Contains 1 SAM (sterile alpha motif) domain. |
| Cellular localization | | Nucleus. |

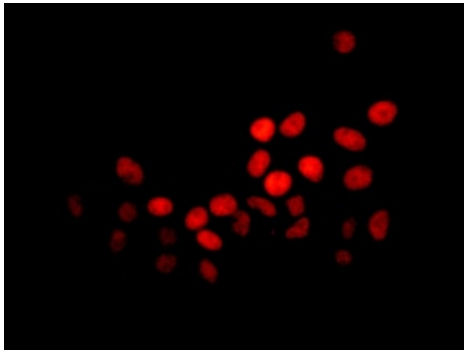
Images



Flow Cytometry - Anti-SAMHD1 antibody
[EPR13040(B)] - BSA and Azide free (ab240199)

Flow cytometric analysis of permeabilized THP1 cells labeling SAMHD1 (red) with [ab177462](#) at 1/10 dilution or rabbit IgG (negative) (green).

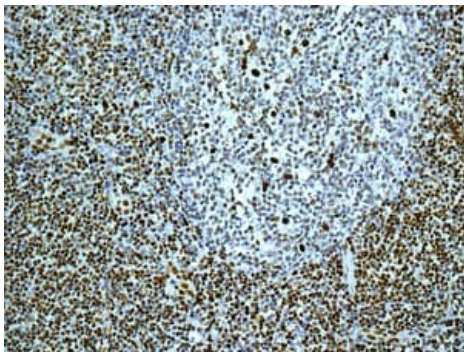
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab177462](#)).



Immunocytochemistry/ Immunofluorescence - Anti-SAMHD1 antibody [EPR13040(B)] - BSA and Azide free (ab240199)

Immunofluorescence analysis of MCF7 cells labeling SAMHD1 with [ab177462](#) at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab177462](#)).

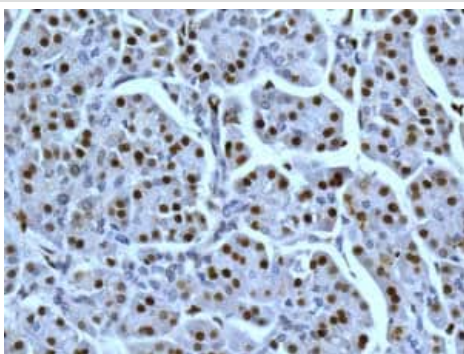


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAMHD1 antibody [EPR13040(B)] - BSA and Azide free (ab240199)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling SAMHD1 with [ab177462](#) at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab177462](#)).

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAMHD1 antibody [EPR13040(B)] - BSA and Azide free (ab240199)

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling SAMHD1 with [ab177462](#) at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab177462](#)).

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

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-SAMHD1 antibody [EPR13040(B)] - BSA and Azide free (ab240199)

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