

Product datasheet

Anti-SARA antibody [EPR5020] ab124875

Recombinant RabMAb

[5 References](#) [5 Images](#)

Overview

Product name	Anti-SARA antibody [EPR5020]
Description	Rabbit monoclonal [EPR5020] to SARA
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: ICC
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide within Human SARA aa 1-100 (N terminal). The exact sequence is proprietary.
Positive control	Huan heart, A673, HT-1080, BxPC-3, Jutkat, HeLa, and Human fetal brain lysates, Human kidney tissue
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.

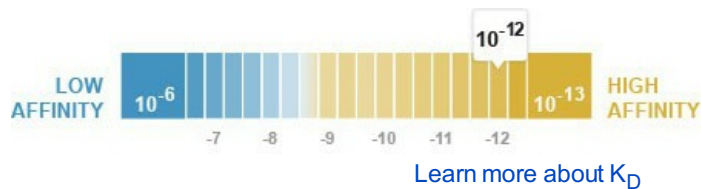
We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

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. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Dissociation constant (K_D)	K _D = 3.10 x 10 ⁻¹² M



Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR5020
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab124875** 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		1/10000 - 1/50000. Detects a band of approximately 180 kDa (predicted molecular weight: 156 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes	Is unsuitable for ICC.
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Target

Function	Early endosomal protein that functions to recruit SMAD2/SMAD3 to intracellular membranes and
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to the TGF-beta receptor. Plays a significant role in TGF-mediated signaling by regulating the subcellular location of SMAD2 and SMAD3 and modulating the transcriptional activity of the SMAD3/SMAD4 complex. Possibly associated with TGF-beta receptor internalization.

Tissue specificity

Ubiquitous. In the brain found primarily in the cerebrovascular smooth muscle cells and reactive astrocytes.

Sequence similarities

Contains 1 FYVE-type zinc finger.

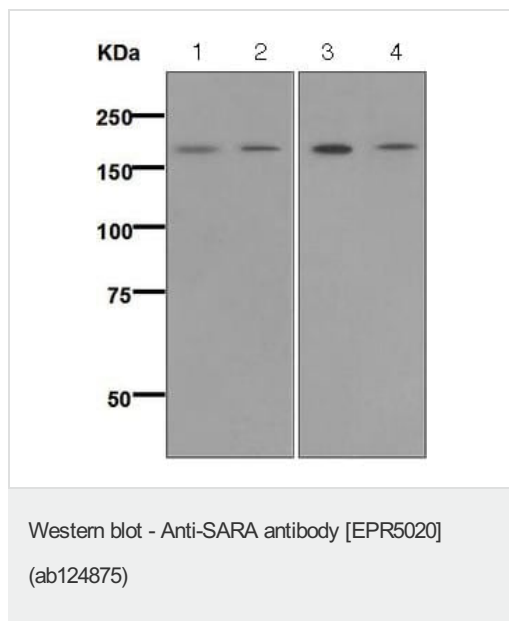
Domain

The SMAD binding domain (SBD) interacts with the MH2 domains of SMAD2 or SMAD3. The FYVE-type zinc finger is necessary and sufficient for its localization into early endosomes and mediates the association with PI3P.

Cellular localization

Cytoplasm. Early endosome membrane.

Images



All lanes : Anti-SARA antibody [EPR5020] (ab124875) at 1/10000 dilution

Lane 1 : Human heart lysate

Lane 2 : A673 cell lysate

Lane 3 : HT-1080 cell lysate

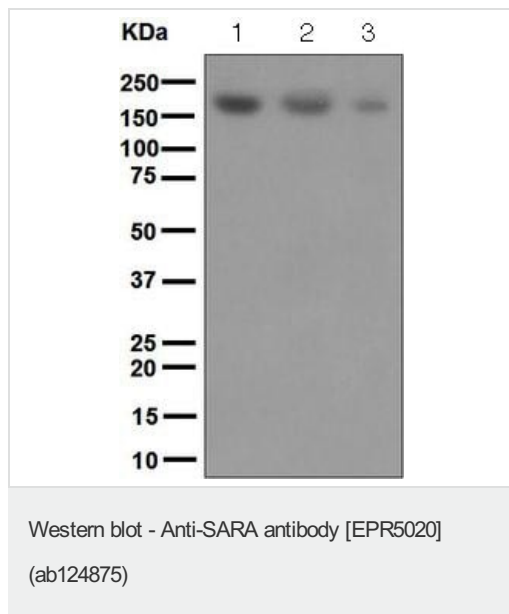
Lane 4 : BxPC-3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 156 kDa



All lanes : Anti-SARA antibody [EPR5020] (ab124875) at 1/10000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : HeLa cell lysate

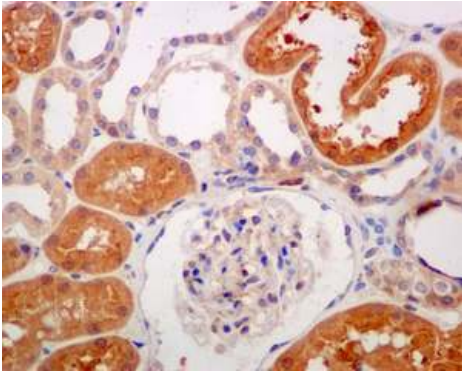
Lane 3 : Human fetal brain lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

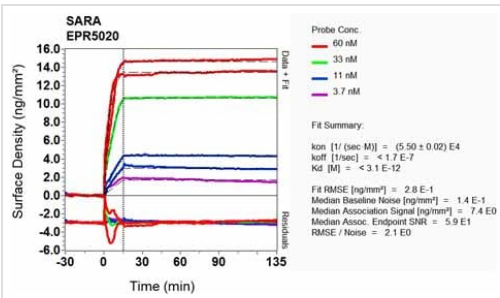
Predicted band size: 156 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SARA antibody [EPR5020] (ab124875)

Staining of SARA in Paraffin-embedded Human kidney tissue by Immunohistochemistry using ab124875 at a dilution of 1/100.

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



SPR Scanning - Anti-SARA antibody [EPR5020] (ab124875)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-SARA antibody [EPR5020] (ab124875)

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

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- Response to your inquiry within 24 hours

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- We investigate all quality concerns to ensure our products perform to the highest standards

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