

Product datasheet

Anti-S100 alpha 6/PRA antibody [EPR13084] ab181974

Recombinant RabMAb

6 Images

Overview

Product name	Anti-S100 alpha 6/PRA antibody [EPR13084]
Description	Rabbit monoclonal [EPR13084] to S100 alpha 6/PRA
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein corresponding to Human S100 alpha 6/PRA aa 1 to the C-terminus. Database link: P06703
Positive control	HeLa and A549 cell lysates; Human fetal lung lysate; Human colonic carcinoma tissue; A549 and HeLa cells.

General notes

This product was previously labelled as S100 alpha 6

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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR13084
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab181974** 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
IHC-P		1/25 - 1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000 - 1/2000. Detects a band of approximately 10 kDa (predicted molecular weight: 10 kDa).
ICC/IF		1/500.

Target

Function	May function as calcium sensor and modulator, contributing to cellular calcium signaling. May function by interacting with other proteins, such as TPR-containing proteins, and indirectly play a role in many physiological processes such as the reorganization of the actin cytoskeleton and in cell motility. Binds 2 calcium ions. Calcium binding is cooperative.
Sequence similarities	Belongs to the S-100 family. Contains 2 EF-hand domains.

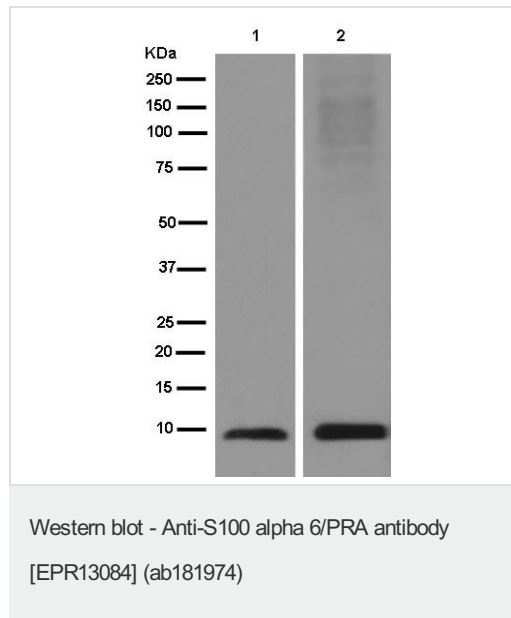
Post-translational modifications

The N-terminus is blocked.

Cellular localization

Nucleus envelope. Cytoplasm. Cell membrane.

Images



All lanes : Anti-S100 alpha 6/PRA antibody [EPR13084] (ab181974) at 1/2000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : A549 cell lysate

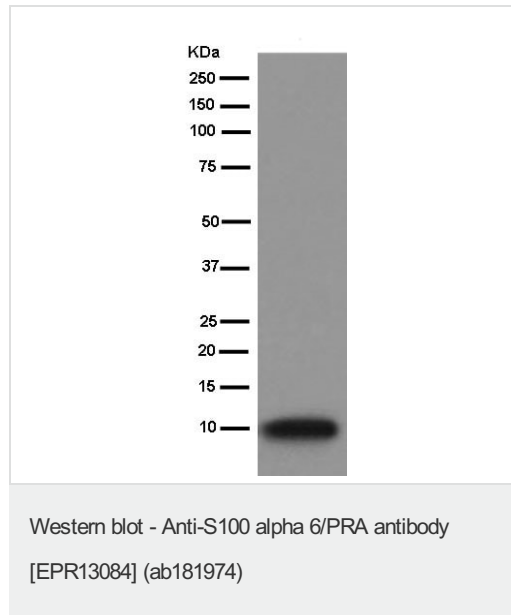
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 10 kDa

Observed band size: 10 kDa



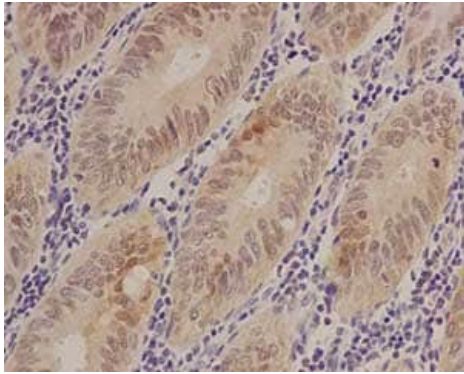
Anti-S100 alpha 6/PRA antibody [EPR13084] (ab181974) at 1/2000 dilution + Human fetal lung lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab136636](#)) at 1/500 dilution

Predicted band size: 10 kDa

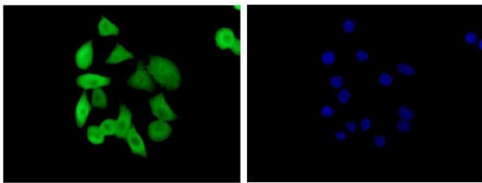
Observed band size: 10 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 alpha 6/PRA antibody [EPR13084] (ab181974)

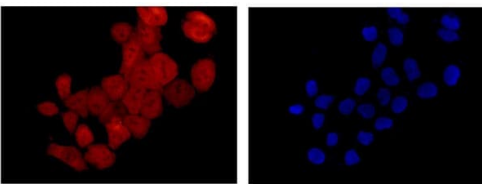
Immunohistochemical analysis of paraffin-embedded Human colonic carcinoma tissue labeling S100 alpha 6/PRA with ab181974 at 1/50 dilution, followed by prediluted ImmunoHistoprobe (Ready to use) HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-S100 alpha 6/PRA antibody [EPR13084] (ab181974)

Immunofluorescent analysis of 4% paraformaldehyde-fixed A549 cells labeling S100 alpha 6/PRA with ab181974 at 1/500 dilution, followed by Goat anti rabbit IgG (Dylight 488) at 1/200 dilution (green). Dapi staining (blue).



Immunocytochemistry/ Immunofluorescence - Anti-S100 alpha 6/PRA antibody [EPR13084] (ab181974)

Immunofluorescent analysis of acetone-fixed HeLa cells labeling S100 alpha 6/PRA with ab181974 at 1/500 dilution, followed by Goat anti rabbit IgG (Dylight 555) at 1/200 dilution (red). Dapi staining (blue).

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-S100 alpha 6/PRA antibody [EPR13084]
(ab181974)

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

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