abcam

Product datasheet

Anti-S100 alpha 6/PRA antibody [EPR13084-69] - BSA and Azide free ab250543

Recombinant RabMAb

9 Images

Overview

Product name	Anti-S100 alpha 6/PRA antibody [EPR13084-69] - BSA and Azide free
Description	Rabbit monoclonal [EPR13084-69] to S100 alpha 6/PRA - BSA and Azide free
Host species	Rabbit
Specificity	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
Tested applications	**Suitable for:** Flow Cyt (Intra), IHC-P, IP, WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse heart, kidney, and spleen tissue lysates, Human lung tissue lysate, Rat kidney tissue lysate, and HeLa and RAW 264.7 cell lysates. ICC/IF: A549 (Human lung carcinoma epithelial cell) cells. IP: HeLa cell lysate. Flow Cyt (Intra): HeLa cells. IHC-P: Human breast, liver, and gastric carcinoma tissues.
General notes	ab250543 is the carrier-free version of **ab181975**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. 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. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13084-69
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250543 in the following tested applications.

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

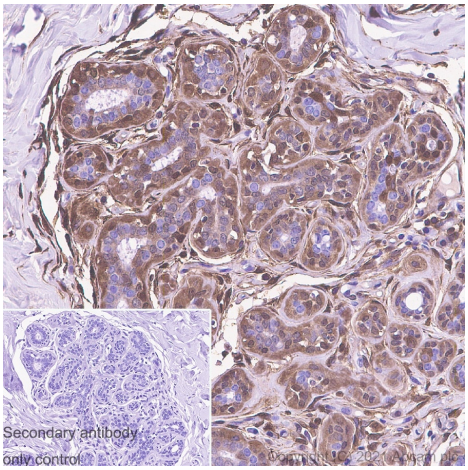
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 10 kDa (predicted molecular weight: 10 kDa).
ICC/IF		Use at an assay dependent concentration.

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.

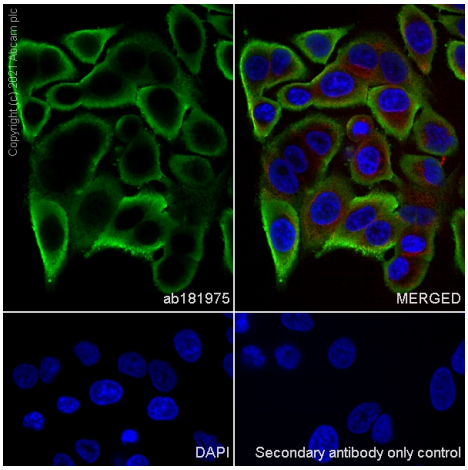
	Contains 2 EF-hand domains.
Post-translational modifications	The N-terminus is blocked.
Cellular localization	Nucleus envelope. Cytoplasm. Cell membrane.

Images



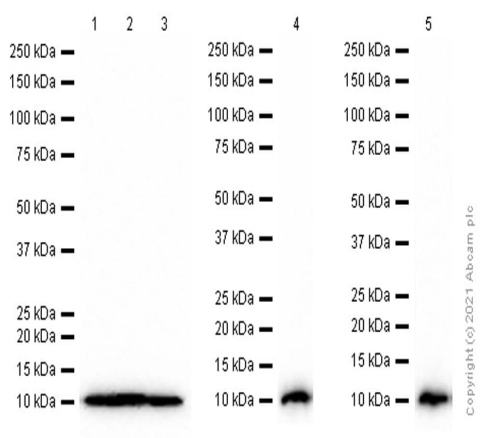
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 alpha 6/PRA antibody [EPR13084-69] - BSA and Azide free (ab250543)

This data was developed using **ab181975**, the same antibody clone in a different buffer formulation.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast tissue sections labeling S100 alpha 6/PRA with purified **ab181975** at 1:4000 (0.04 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunocytochemistry/ Immunofluorescence - Anti-S100 alpha 6/PRA antibody [EPR13084-69] - BSA and Azide free (ab250543)

This data was developed using **ab181975**, the same antibody clone in a different buffer formulation.
Immunocytochemistry analysis of A549 (Human lung carcinoma epithelial cell) cells labeling S100 alpha 6/PRA with purified **ab181975** at 1:250 dilution (0.66 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (2.5 µg/ml) (**ab195889**) (red). Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as a nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-S100 alpha 6/PRA antibody [EPR13084-69] - BSA and Azide free (ab250543)

All lanes : Anti-S100 alpha 6/PRA antibody [EPR13084-69] (**ab181975**) at 1/1000 dilution (Purified)

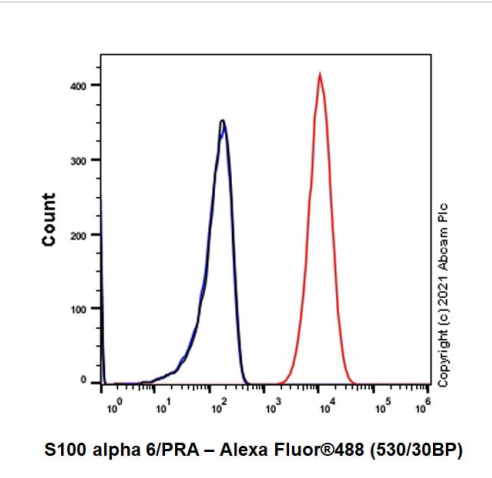
Lane 1 : Mouse heart lysate
Lane 2 : Mouse kidney lysate
Lane 3 : Mouse spleen lysate
Lane 4 : RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate
Lane 5 : Rat kidney lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

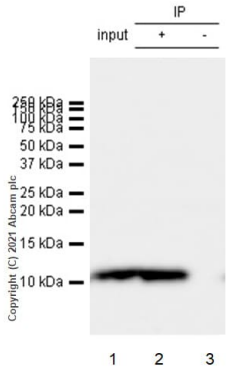
Predicted band size: 10 kDa
Observed band size: 10 kDa

This data was developed using **ab181975**, the same antibody clone in a different buffer formulation.



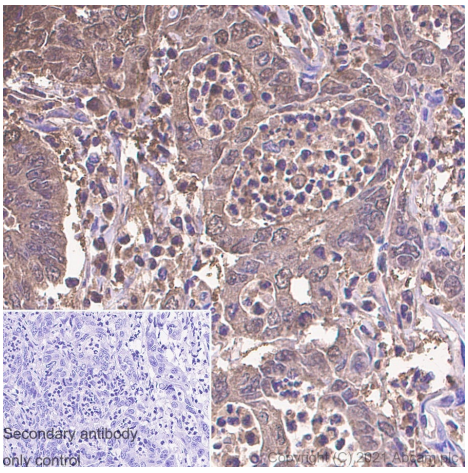
Flow Cytometry (Intracellular) - Anti-S100 alpha 6/PRA antibody [EPR13084-69] - BSA and Azide free (ab250543)

This data was developed using **ab181975**, the same antibody clone in a different buffer formulation.
Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling S100 alpha 6/PRA with purified **ab181975** at 1/20 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150081**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (blue).



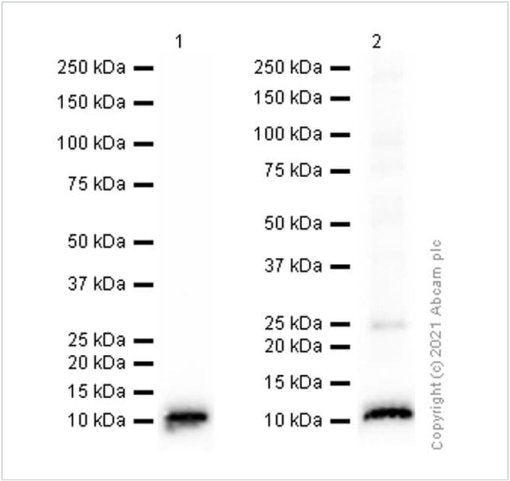
Immunoprecipitation - Anti-S100 alpha 6/PRA antibody [EPR13084-69] - BSA and Azide free (ab250543)

This data was developed using **ab181975**, the same antibody clone in a different buffer formulation.
Purified **ab181975** at 1/20 dilution (0.8 µg) immunoprecipitating S100 alpha 6/PRA in HeLa whole cell lysate.
Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg.
Lane 2 (+): **ab181975** + HeLa whole cell lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab181975** in HeLa whole cell lysate.
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 10 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 alpha 6/PRA antibody [EPR13084-69] - BSA and Azide free (ab250543)

This data was developed using **ab181975**, the same antibody clone in a different buffer formulation.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human gastric carcinoma tissue sections labeling S100 alpha 6/PRA with purified **ab181975** at 1:4000 (0.04 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Western blot - Anti-S100 alpha 6/PRA antibody [EPR13084-69] - BSA and Azide free (ab250543)

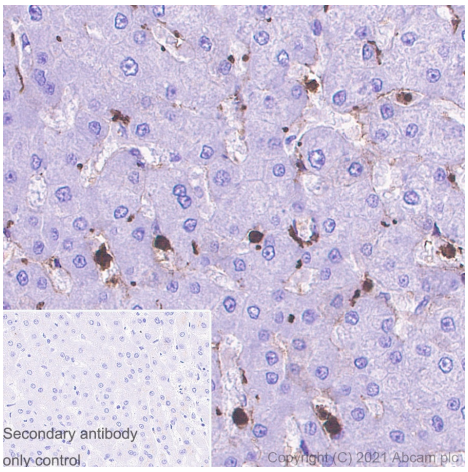
All lanes : Anti-S100 alpha 6/PRA antibody [EPR13084-69] (**ab181975**) at 1/1000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate at 15 µg
Lane 2 : Human lung lysate at 20 µg

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 10 kDa
Observed band size: 10 kDa

This data was developed using **ab181975**, the same antibody clone in a different buffer formulation.



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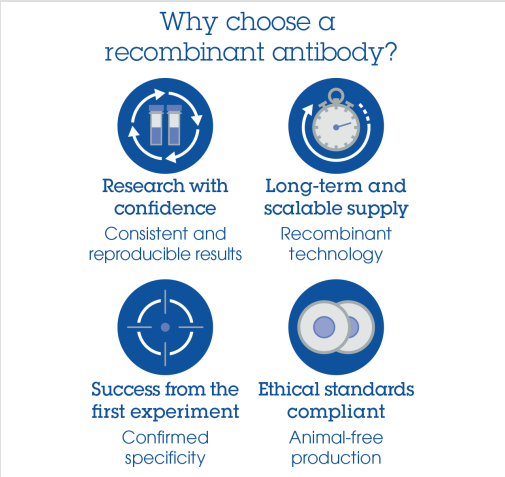
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue sections labeling S100 alpha 6/PRA with purified **ab181975** at 1:4000 (0.04 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



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