abcam

Product datasheet

Anti-S100 alpha 2/S100A2 antibody [EPR5392] ab109494

重组　RabMAb

12 References　7 图像

概述

产品名称	Anti-S100 alpha 2/S100A2抗体[EPR5392]
描述	兔单克隆抗体[EPR5392] to S100 alpha 2/S100A2
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), ICC/IF, WB, IP, IHC-P
种属反应性	**与反应:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HACAT, BxPC3, HeLa and A431 cell lysates; IHC: Human skin and human lung carcinoma tissues IP: HaCaT. ICC/IF: A431 (Human epidermoid carcinoma epithelial cell) cells Flow cyto(intra): A431 (Human epidermoid carcinoma epithelial cell) cells
常规说明	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**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR5392
同种型	IgG

应用

The Abpromise guarantee　　**Abpromise™承诺保证使用ab109494于以下的经测试应用**

"应用说明"部分 下显示的仅为**推荐的起始稀释度**；实际**最佳的稀释度/浓度**应**由使用者**检定。

| 应用	Ab评论	说明
Flow Cyt (Intra)		1/100 - 1/1000. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.
WB		1/1000 - 1/10000. Predicted molecular weight: 11 kDa.
IP		1/10 - 1/100.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

靶标

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功能	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. May also play a role in suppressing tumor cell growth.
组织特异性	A subset of epithelial cells including normal human mammary epithelial cells and keratinocytes.
序列相似性	Belongs to the S-100 family. Contains 2 EF-hand domains.
发展阶段	Preferentially expressed in normal human mammary epithelial cells as opposed to tumor-derived ones. The level of S100L was shown to correlate inversely with tumor progression.

图片
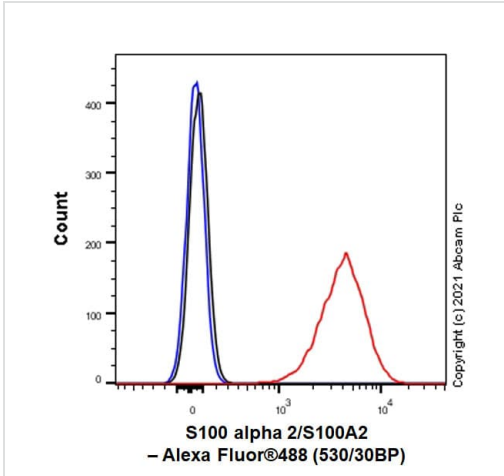
Flow Cytometry (Intracellular) - Anti-S100 alpha 2/S100A2 antibody [EPR5392] (ab109494)

Intracellular Flow Cytometry analysis of A431 (Human epidermoid carcinoma epithelial cell) cells labeling S100 alpha 2 with purified ab109494 at 1/20 dilution (10 ug/ml) (Red). Cells were fixed with 80% Methanol and permeabilised with 0.1% Tween-20. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150081**) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as a isotype control. Cell without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.
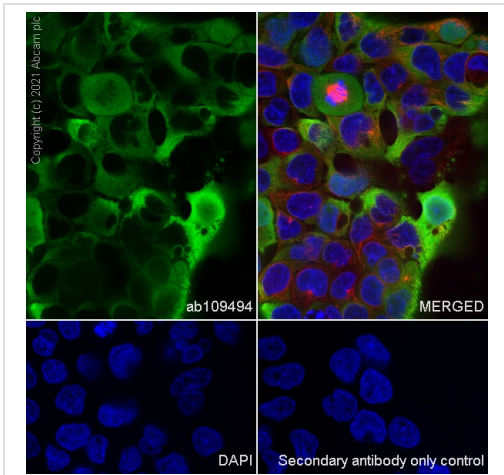
Immunocytochemistry/ Immunofluorescence - Anti-S100 alpha 2/S100A2 antibody [EPR5392] (ab109494)

Immunocytochemistry/ Immunofluorescence analysis of A431 (Human epidermoid carcinoma epithelial cell) cells labeling S100 alpha 2 using ab109494. The cells were fixed with 100% Methanol then permeabilized with 0.1% Triton X-100. The cells were then incubated with ab109494 at 1:100 dilution followed by a further incubation with a Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI. Cells were counterstained using **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1:200 dilution (shown in red). Secondary antibody only control: PBS instead of the primary antibody.
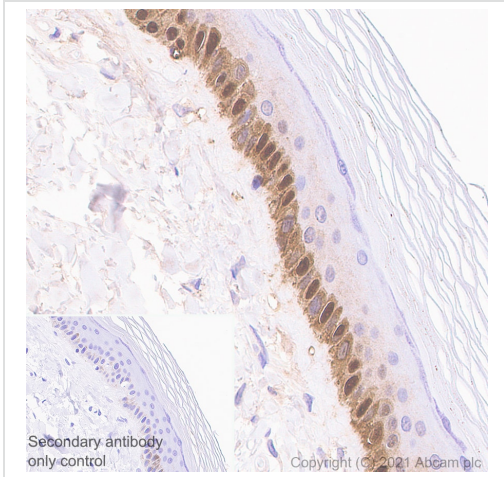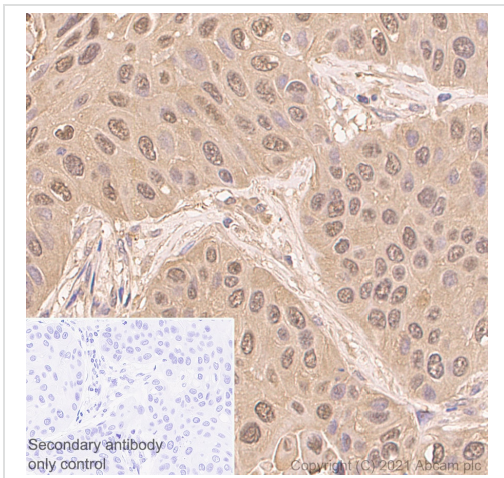
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 alpha 2/S100A2 antibody [EPR5392] (ab109494)

Immunohistochemical analysis of Paraffin-embedded sections human skin tissue labelling S100 alpha 2 with ab109494 at 1/1000 dilution, followed by a ready to use secondary Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Staining on human skin tissue is observed. Counter stained with Haematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0).

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 alpha 2/S100A2 antibody [EPR5392] (ab109494)

Immunohistochemical analysis of Paraffin-embedded sections human lung carcinoma tissue labelling S100 alpha 2 with ab109494 at 1/1000 dilution, followed by a ready to use secondary Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Staining on human lung carcinoma tissue is observed. Counter stained with Haematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0).

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.
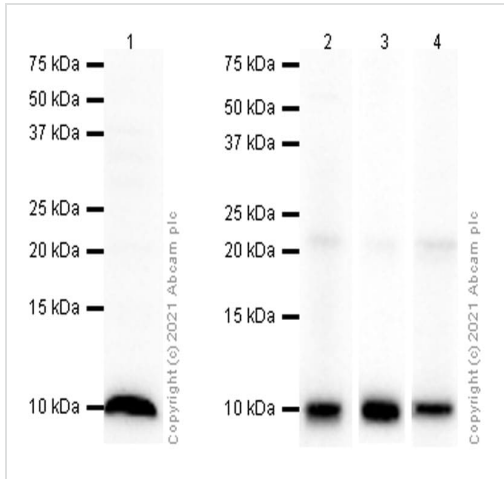
Western blot - Anti-S100 alpha 2/S100A2 antibody [EPR5392] (ab109494)

All lanes : Anti-S100 alpha 2/S100A2 antibody [EPR5392] (ab109494) at 1/1000 dilution

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

Lane 2 : HaCaT (Human skin keratinocyte) whole cell lysate at 15 µg

Lane 3 : BxPC-3 (Human pancreas adenocarcinoma epithelial cell) whole cell lysate at 15 µg

Lane 4 : A431 (Human epidermoid carcinoma epithelial cell) whole cell lysate at 15 µg

Secondary

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

Predicted band size: 11 kDa
Observed band size: 11 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Immunoprecipitation - Anti-S100 alpha 2/S100A2 antibody [EPR5392] (ab109494)

S100 alpha 2/S100A2 was immunoprecipitated from 0.35 mg HaCaT (Human skin keratinocyte) whole cell lysate 10 µg with 109494 at 1/20 dilution (1µg). VeriBlot for IP Detection Reagent (HRP)(**ab131366**) was used at 1/5000 dilution.

Lane 1: HaCaT (Human skin keratinocyte) whole cell lysate 10 µg

Lane 2: ab109494 IP in HaCaT whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab109494 in HaCaT whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Anti-S100 alpha 2/S100A2 antibody [EPR5392]

(ab109494)

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