

### Anti-S100A4 antibody [EPR2761(2)] ab124805

敲除验证
重组
RabMAb

★★★★☆
8 Abreviews
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#### 概述

产品名称	Anti-S100A4抗体[EPR2761(2)]
描述	兔单克隆抗体[EPR2761(2)] to S100A4
宿主	Rabbit
特异性	Some optimisation may be required for detection of the target protein due to low levels of endogenous expression in some samples. Please see images below for suitable positive controls.
经测试应用	<b>适用于:</b> ICC/IF, Flow Cyt (Intra), WB, IP, IHC-P
种属反应性	<b>与反应:</b> Human
免疫原	<p>Synthetic peptide within Human S100A4 aa 50 to the C-terminus (C terminal). The exact sequence is proprietary.</p> <p>Database link: <a href="#">P26447</a></p> <p>(Peptide available as <a href="#">ab232852</a>)</p>
阳性对照	Human tonsil, A549, A375, HeLa and Human small intestine lysates; Human tonsil tissue
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

#### 性能

形式	Liquid
存放说明	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.</p> <p>Stable for 12 months at -20°C.</p>

存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR2761(2)
同种型	IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab124805于以下的经测试应用

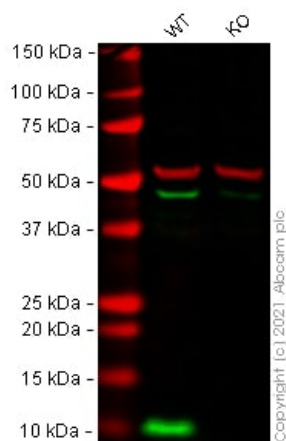
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (2)	1/100 - 1/250.
Flow Cyt (Intra)		1/80 - 1/800. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★☆☆☆☆ (1)	1/1000 - 1/10000. Detects a band of approximately 12 kDa (predicted molecular weight: 12 kDa).
IP		1/10 - 1/100.
IHC-P	★★★★★ (4)	1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

靶标

组织特异性	Ubiquitously expressed.
序列相似性	Belongs to the S-100 family. Contains 2 EF-hand domains.

图片



Western blot - Anti-S100A4 antibody [EPR2761(2)]  
(ab124805)

**All lanes :** Anti-S100A4 antibody [EPR2761(2)] (ab124805) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa cell lysate

**Lane 2 :** S100A4 knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

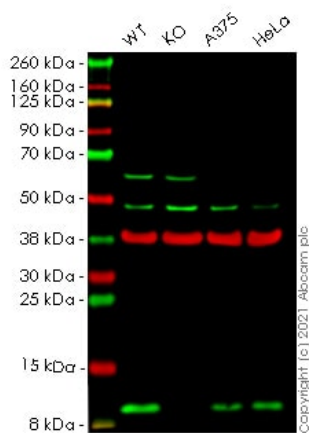
Performed under reducing conditions.

**Predicted band size:** 12 kDa

**Observed band size:** 11 kDa

**Lanes 1 - 2:** Merged signal (red and green). Green - ab124805 observed at 11 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

ab124805 was shown to react with S100A4 in wild-type HeLa cells in Western blot with loss of signal observed in S100A4 knockout cell line **ab265709** (S100A4 knockout cell lysate **ab257046**). Wild-type HeLa and S100A4 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab124805 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-S100A4 antibody [EPR2761(2)] (ab124805)

**All lanes :** Anti-S100A4 antibody [EPR2761(2)] (ab124805) at 1/1000 dilution

**Lane 1 :** Wild-type A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 2 :** S100A4 knockout A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 3 :** A-375 (Human malignant melanoma cell line) whole cell lysate

**Lane 4 :** HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

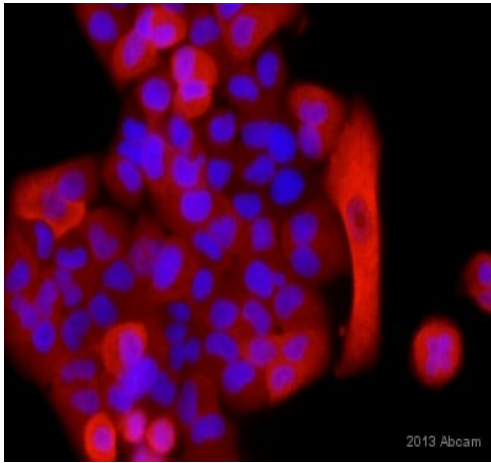
Performed under reducing conditions.

**Predicted band size:** 12 kDa

**Observed band size:** 12 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab124805 observed at 12 kDa. Red - loading control [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

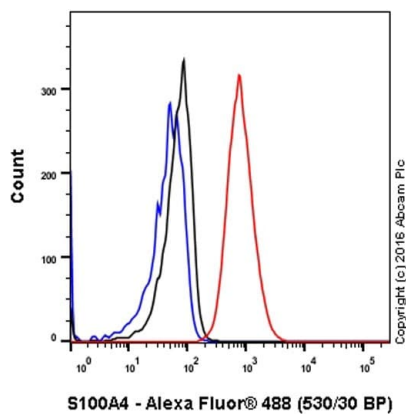
ab124805 was shown to react with S100A4 in wild-type A549 cells in Western blot with loss of signal observed in S100A4 knockout cell line [ab261865](#) (knockout cell lysate [ab261674](#)). Wild-type A549 and S100A4 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab124805 and [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-S100A4 antibody [EPR2761(2)] (ab124805)

This image is courtesy of an anonymous Abreview

Unpurified ab124805 staining S100A4 in the A549 cell line from Human lungs by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde and permeabilized with Triton X-100 0.25% in PBS. Samples were incubated with primary antibody (1/100) for 45 minutes at 25°C. A TRITC-conjugated Goat anti-rabbit polyclonal was used as the secondary antibody.

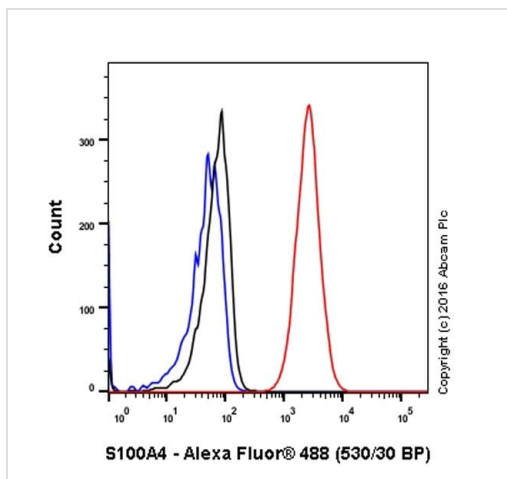


Flow Cytometry (Intracellular) - Anti-S100A4 antibody [EPR2761(2)] (ab124805)

ab124805 staining S100A4 in HeLa (human cervix adenocarcinoma) by intracellular flow cytometry. Cells were fixed with 80% methanol and permeabilised with 0.1% Triton X-100 (in PBS). The sample was incubated with the primary antibody at a dilution of 1/800. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isotype control: **ab172730** rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)

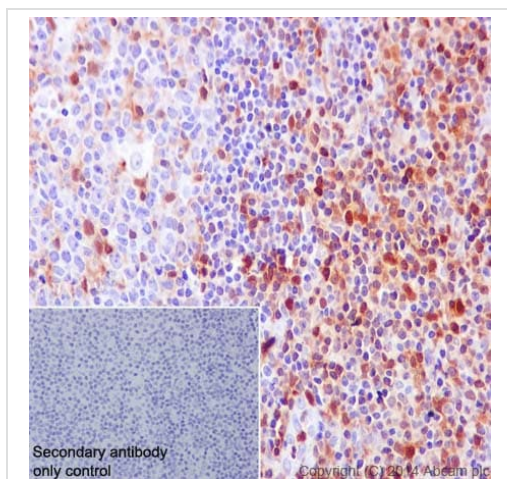


Flow Cytometry (Intracellular) - Anti-S100A4 antibody [EPR2761(2)] (ab124805)

ab124805 staining S100A4 in HeLa (human cervix adenocarcinoma) by intracellular flow cytometry. Cells were fixed with 80% methanol and permeabilised with 0.1% Triton X-100 (in PBS). The sample was incubated with the primary antibody at a dilution of 1/80. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isotype control: **ab172730** rabbit monoclonal IgG (Black)

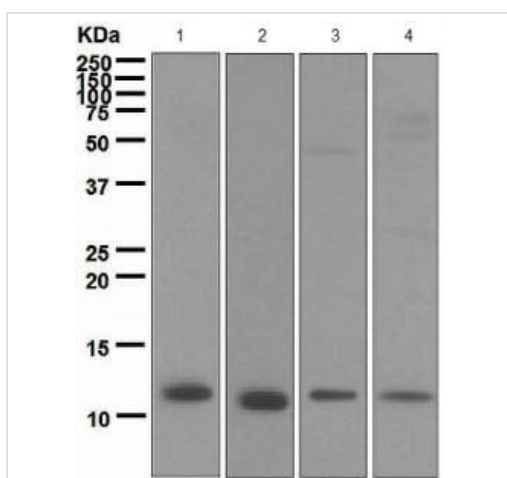
Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100A4 antibody [EPR2761(2)] (ab124805)

ab124805 staining S100A4 in human tonsil tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and antigen retrieval was by heat mediation in a EDTA buffer. Samples were incubated with primary antibody at a dilution of 1/500. A goat anti-rabbit IgG H&L (HRP) **ab97051** was used as the secondary antibody at a dilution of 1/500.

**Negative control 1:** PBS in place of primary antibody.



Western blot - Anti-S100A4 antibody [EPR2761(2)] (ab124805)

**All lanes :** Anti-S100A4 antibody [EPR2761(2)] (ab124805) at 1/1000 dilution (unpurified)

**Lane 1 :** Human tonsil lysate

**Lane 2 :** A549 cell lysate

**Lane 3 :** A375 cell lysate

**Lane 4 :** Human small intestine lysate

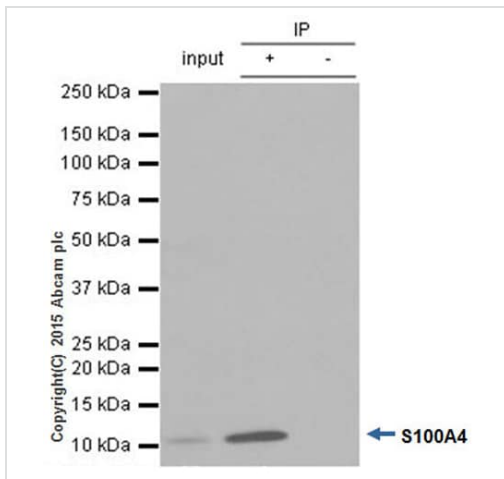
Lysates/proteins at 10 µg per lane.

**Secondary**

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

**Predicted band size:** 12 kDa

**Observed band size:** 12 kDa



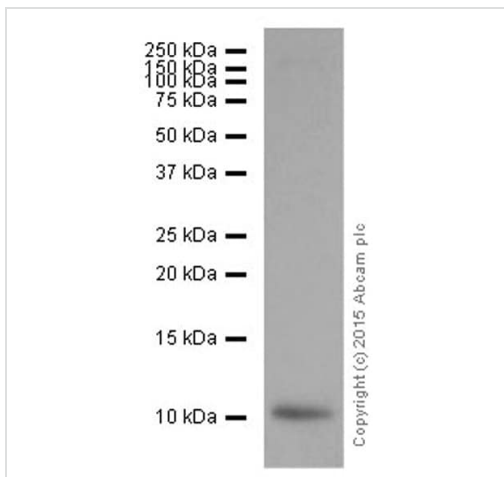
Immunoprecipitation - Anti-S100A4 antibody  
[EPR2761(2)] (ab124805)

ab124805 immunoprecipitating S100A4. 10 µg of cell lysate was incubated with primary antibody at a dilution of 1/30 and Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at a dilution of 1/1500.

**Lane 1:** Human tonsil whole cell lysate (10 µg)

**Lane 2:** Human tonsil whole cell lysate

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab124805 in human tonsil whole cell lysate



Western blot - Anti-S100A4 antibody [EPR2761(2)]  
(ab124805)

Anti-S100A4 antibody [EPR2761(2)] (ab124805) + A549 (human lung carcinoma) whole cell lysate at 20 µg

### Secondary

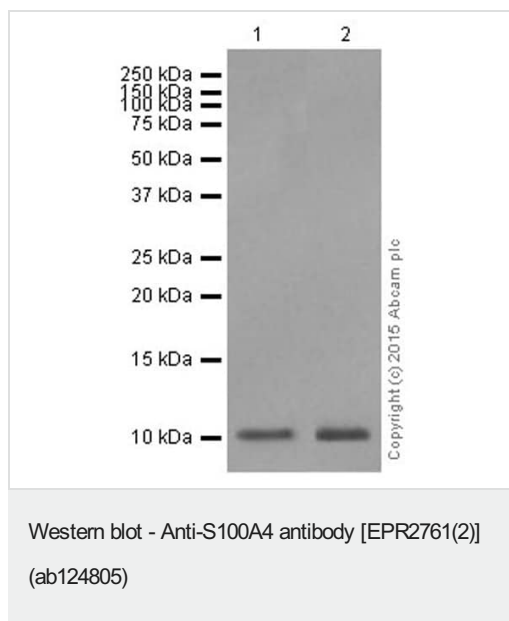
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 12 kDa

**Additional bands at:** 12 kDa. We are unsure as to the identity of these extra bands.

**Blocking buffer:** 5% NFDM /TBST

**Diluting Buffer:** 5% NFDM /TBST



**All lanes :** Anti-S100A4 antibody [EPR2761(2)] (ab124805) at 1/2500 dilution

**Lane 1 :** Human tonsil tissue lysate

**Lane 2 :** A375 (human malignant melanoma) whole cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

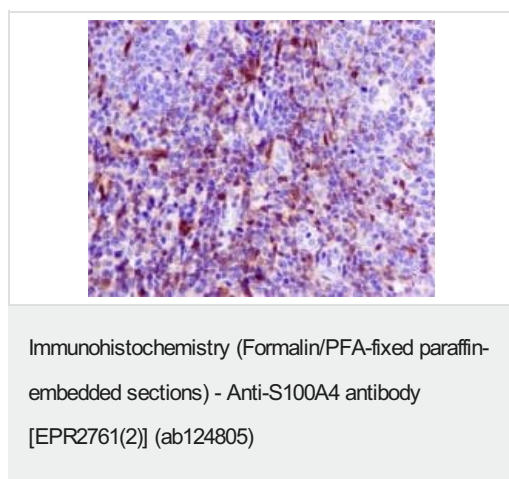
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 12 kDa

**Additional bands at:** 12 kDa. We are unsure as to the identity of these extra bands.

**Blocking Buffer:** 5% NFDM /TBST

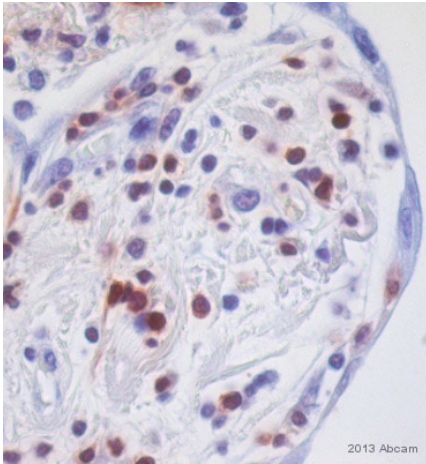
**Diluting Buffer:** 5% NFDM /TBST



Unpurified ab124805, at 1/250 dilution, staining S100A4 in paraffin-embedded Human tonsil tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



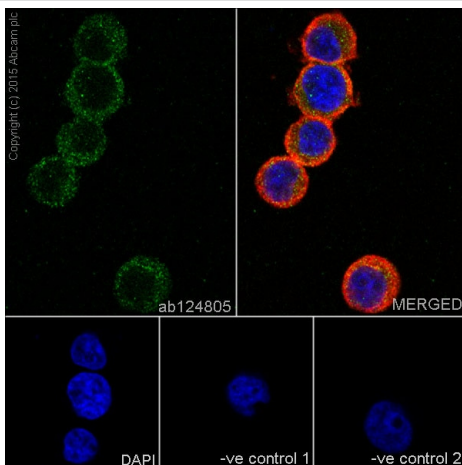


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100A4 antibody [EPR2761(2)] (ab124805)

This image is courtesy of an anonymous Abreview

Immunohistochemical analysis of Human lung tissue, staining S100A4 with unpurified ab124805.

Tissue was fixed with HOPE and blocked with blocking solution for 5 minutes at 25°C. Samples were incubated with primary antibody (1/1000 in diluent) for 1 hour at 25°C. An undiluted HRP-conjugated goat anti-rabbit polyclonal IgG was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-S100A4 antibody [EPR2761(2)] (ab124805)

ab124805 staining S100A4 in Jurkat (human acute T cell leukemia) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody at a dilution of 1/250. A goat anti rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) was used as the secondary antibody at 1/500. [ab7291](#) and [ab150120](#) were used as counterstains for primary antibody ab124805 and secondary antibody [ab150077](#) respectively and DAPI was used as a nuclear counterstain.

**Negative control 1:** Rabbit primary antibody and anti-mouse secondary antibody ([ab150120](#))

**Negative control 2:** Mouse primary antibody ([ab7291](#)) and anti-rabbit secondary antibody ([ab150077](#))

### 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-S100A4 antibody [EPR2761(2)] (ab124805)

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

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