

### Anti-S100A9 antibody [EPR3555] ab92507

**重组** RabMAb

**22 References** [7 图像](#)

#### 概述

产品名称	Anti-S100A9抗体[EPR3555]
描述	兔单克隆抗体[EPR3555] to S100A9
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, IHC-P, ICC/IF, Flow Cyt (Intra) <b>不适用于:</b> IP
种属反应性	<b>与反应:</b> Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Breast cancer, Human tonsil, Human spleen and peripheral blood lymphocytes lysates, Human breast carcinoma tissue and Human spleen tissue.IF: DU145 cell lineFlow Cyt (intra): Jurkat cells
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> . 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> . 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: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR3555
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™** 承诺保证使用ab92507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
WB		1/1000 - 1/5000. Predicted molecular weight: 13 kDa.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol. Boil slides seven times for five minutes each in pH 6 citrate buffer.
ICC/IF		1/100 - 1/250.
Flow Cyt (Intra)		1/200.

应用说明      Is unsuitable for IP.

## 靶标

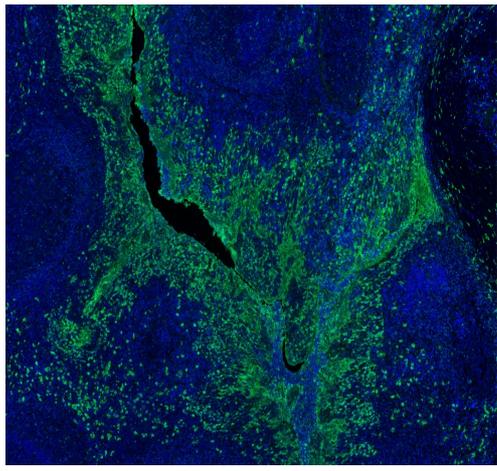
**功能**      Calcium-binding protein. Has antimicrobial activity towards bacteria and fungi. Important for resistance to invasion by pathogenic bacteria. Up-regulates transcription of genes that are under the control of NF-kappa-B. Plays a role in the development of endotoxic shock in response to bacterial lipopolysaccharide (LPS) (By similarity). Promotes tubulin polymerization when unphosphorylated. Promotes phagocyte migration and infiltration of granulocytes at sites of wounding. Plays a role as a pro-inflammatory mediator in acute and chronic inflammation and up-regulates the release of IL8 and cell-surface expression of ICAM1. Extracellular calprotectin binds to target cells and promotes apoptosis. Antimicrobial and proapoptotic activity is inhibited by zinc ions.

**组织特异性**      Expressed by macrophages in acutely inflamed tissues and in chronic inflammation. Detected in peripheral blood leukocytes, in neutrophils and granulocytes. Detected at sites of vascular inflammation (at protein level). Also expressed in epithelial cells constitutively or induced during dermatoses.

**序列相似性**      Belongs to the S-100 family.  
Contains 2 EF-hand domains.

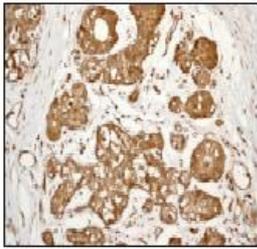
**翻译后修饰**      Phosphorylated. Phosphorylation inhibits activation of tubulin polymerization.

**细胞定位**      Secreted. Cytoplasm. Cytoplasm > cytoskeleton. Cell membrane. Associates with tubulin filaments in activated monocytes. Targeted to the cell surface upon calcium influx. Released from blood leukocytes upon exposure to CSF2/GM-CSF, bacterial lipopolysaccharide (LPS) and during inflammatory processes. Serum levels are high in patients suffering from chronic inflammation.



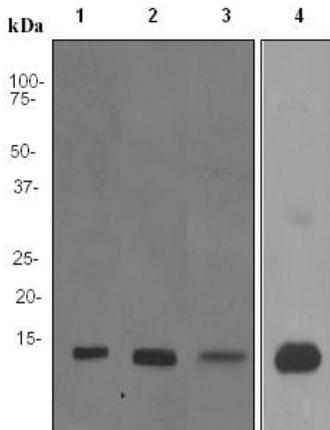
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100A9 antibody [EPR3555] (ab92507)

Anti-S100A9 antibody [EPR3555] (ab92507)  
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling S100A9 with ab92507 at a dilution of 1:500. Heat mediated antigen retrieval was performed using AR9 antigen retrieval solution, and microwave treatment for 15 min at 20% power. Anti-Rabbit/Mouse HRP polymer (PerkinElmer Opal Polymer HRP Ms Plus Rb) was used as secondary antibody. Opal tyramide amplification was performed using Opal 520 fluorophore. Counterstained with DAPI stain. Image scanned with Vectra 3.0 and analyzed via Phenochart software. This image was courteously provided by Dr. Houssein Abdul Sater, Georgia Cancer Center.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100A9 antibody [EPR3555] (ab92507)

ab92507, at a 1/250 dilution, staining S100A9 in paraffin embedded Human breast carcinoma tissue by Immunohistochemistry.



Western blot - Anti-S100A9 antibody [EPR3555] (ab92507)

**All lanes** : Anti-S100A9 antibody [EPR3555] (ab92507) at 1/1000 dilution

**Lane 1** : Breast cancer lysate

**Lane 2** : Human tonsil lysate

**Lane 3** : Human spleen lysate

**Lane 4** : Peripheral blood lymphocytes lysate

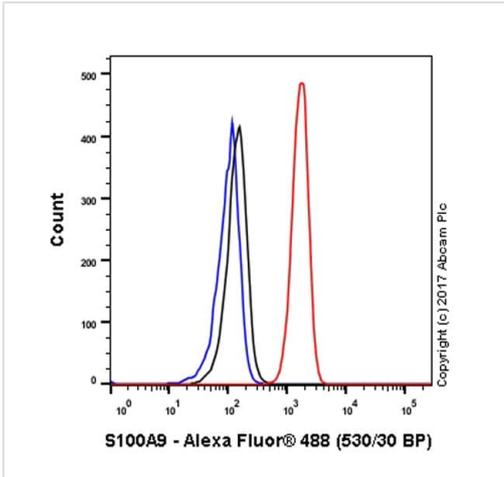
Lysates/proteins at 10 µg per lane.

**Secondary**

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

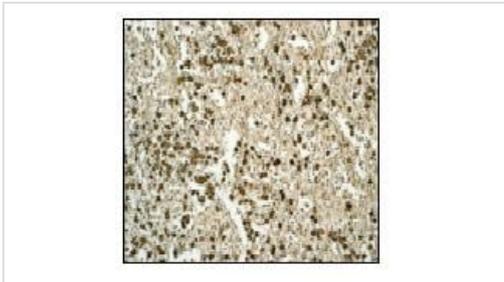
**Predicted band size:** 13 kDa

**Observed band size:** 14 kDa



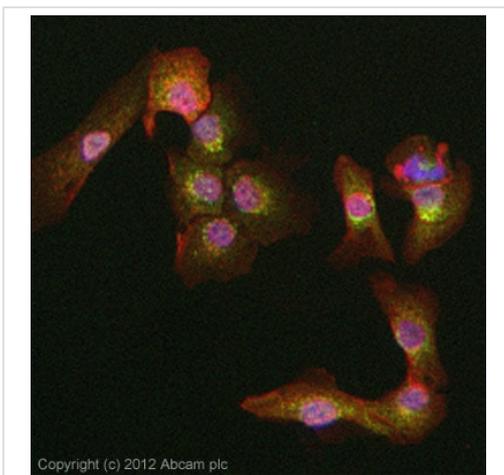
Flow Cytometry (Intracellular) - Anti-S100A9 antibody [EPR3555] (ab92507)

Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling S100A9 (red) with purified ab92507 at a 1/200 dilution (10ug/mL). Cells were fixed with 80% methanol and permeabilized with 0.1% Tween-20. A goat anti rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (Black) ([ab172730](#)). Blue (unlabeled control) - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100A9 antibody [EPR3555] (ab92507)

ab92507, at a 1/250 dilution, staining S100A9 in paraffin embedded Human spleen tissue by Immunohistochemistry.



Immunocytochemistry/ Immunofluorescence - Anti-S100A9 antibody [EPR3555] (ab92507)

ICC/IF image of ab92507 stained DU145 cells. The cells were 4% paraformaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab92507, 1/200) overnight at +4°C. The secondary antibody (green) was [ab96899](#), DyLight® 488 goat anti-rabbit IgM (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-S100A9 antibody [EPR3555] (ab92507)

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

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