

Product datasheet

Anti-S100A12/CGRP antibody [EPR23677-111] ab272713

Recombinant RabMAb

[1 References](#) [8 Images](#)

Overview

Product name	Anti-S100A12/CGRP antibody [EPR23677-111]
Description	Rabbit monoclonal [EPR23677-111] to S100A12/CGRP
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, IP, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human spleen and lymph node tissue lysate. IHC-P: Human spleen tissue. Human bladder cancer and cervical cancer tissue. ICC/IF: Human PBMCs. Flow Cyt (intra): Human PBMCs. IP: Human lymph node tissue lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23677-111

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab272713 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)		1/400.
WB		1/1000. Predicted molecular weight: 10 kDa.
IHC-P		1/5000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30.
ICC/IF		1/100.

Target

Function

Calcitermin possesses antifungal activity against C.albicans and is also active against E.coli and P.aeruginosa but not L.monocytogenes and S.aureus. Binds calcium, zinc and copper. Presence of zinc increases the affinity for calcium. Plays an important role in the inflammatory response. Interaction with AGER on endothelium, mononuclear phagocytes, and lymphocytes triggers cellular activation, with generation of key proinflammatory mediators.

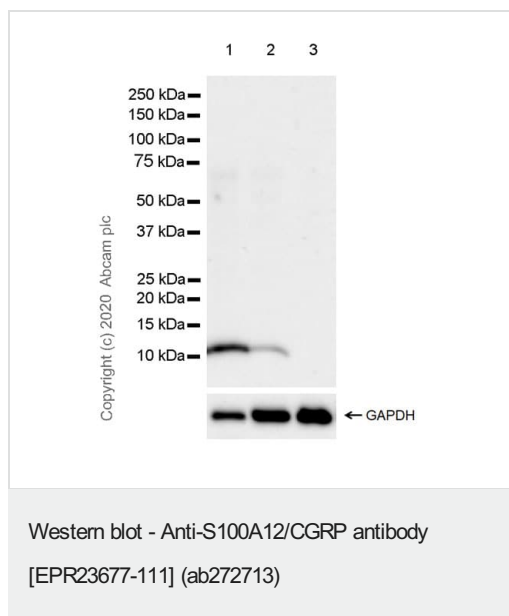
Tissue specificity

Monocytes and lymphocytes.

Sequence similarities

Belongs to the S-101 family.
Contains 2 EF-hand domains.

Images



All lanes : Anti-S100A12/CGRP antibody [EPR23677-111] (ab272713) at 1/1000 dilution

Lane 1 : Human spleen tissue lysate

Lane 2 : Human lymph node tissue lysate

Lane 3 : Human brain tissue lysate

Lysates/proteins at 40 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/50000 dilution

Predicted band size: 10 kDa

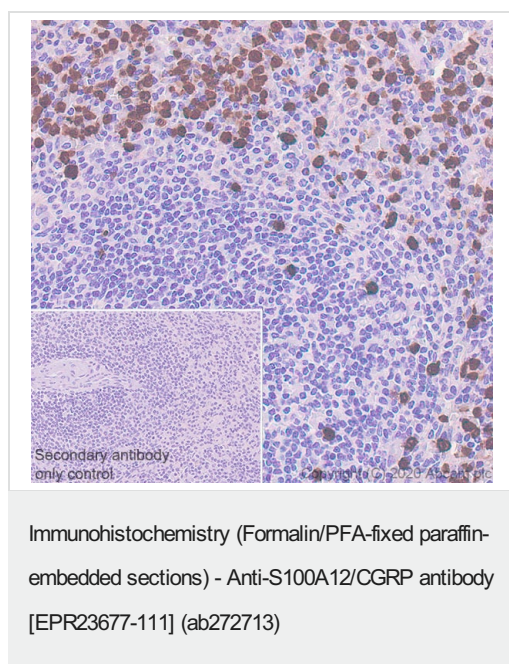
Observed band size: 10 kDa

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

The molecular weight observed is consistent with what has been described in the literature (PMID: 19542470).

Negative control: Human brain (PMID: 8718672).

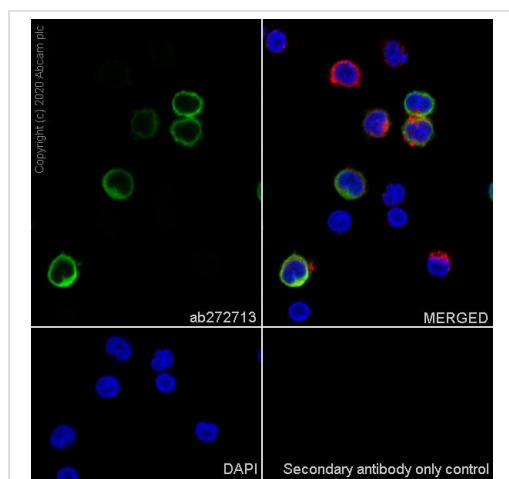
Exposure time: 103 seconds.



Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling S100A12/CGRP with ab272713 at 1/5000 dilution followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on granulocytes of human spleen (PMID: 10464253). The section was incubated with ab272713 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

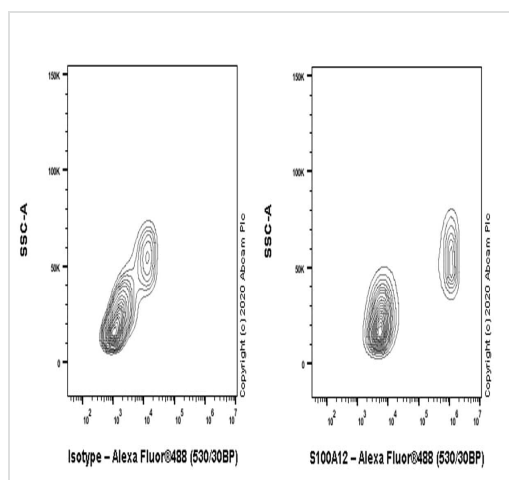
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-S100A12/CGRP antibody [EPR23677-111] (ab272713)

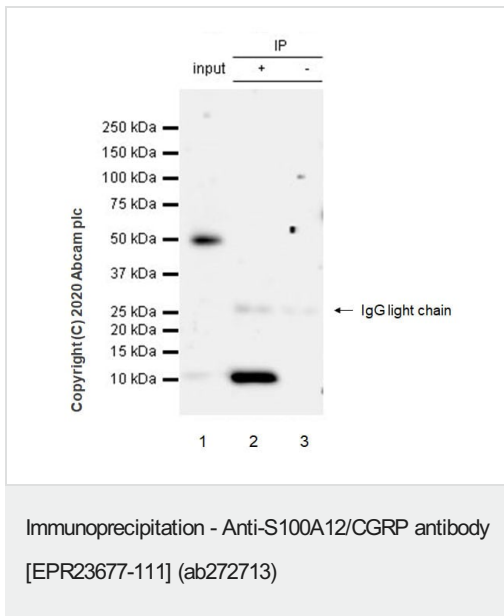
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized human PBMC cells labelling S100A12/CGRP with ab272713 at 1/100 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 µg/ml dilution (Green). Confocal image showing cytoplasmic staining in subsets of human PBMC cell line. **ab195889** anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 2 µg/ml dilution.



Flow Cytometry (Intracellular) - Anti-S100A12/CGRP antibody [EPR23677-111] (ab272713)

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed, 0.1% Tween-20 permeabilized human peripheral blood mononuclear cell (PBMC) cells labeling S100A12/CGRP with ab272713 at 1/400 dilution (0.1 µg) (Right panel), compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Left panel). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



S100A12/CGRP was immunoprecipitated from 0.35 mg human lymph node tissue lysate 10 µg with ab272713 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab272713 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

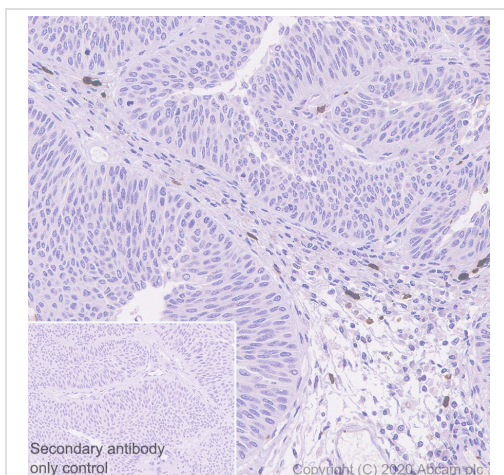
Lane 1: Human lymph node tissue lysate 10 µg.

Lane 2: ab272713 IP in Human lymph node tissue lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab272713 in human lymph node tissue lysate.

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

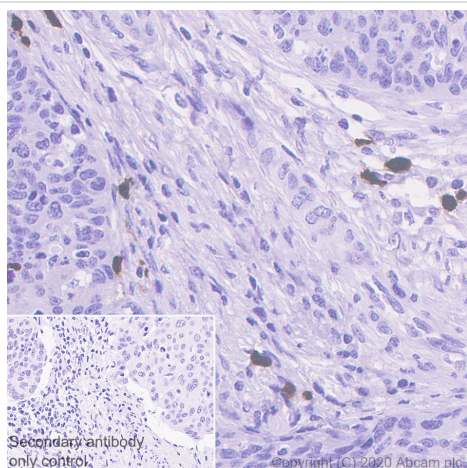
Exposure time: 50 seconds.



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue labeling S100A12/CGRP with ab272713 at 1/5000 dilution followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on granulocytes of human bladder cancer (PMID: 31993369). The section was incubated with ab272713 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100A12/CGRP antibody [EPR23677-111] (ab272713)

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue labeling S100A12/CGRP with ab272713 at 1/5000 dilution followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on granulocytes of human cervical cancer (PMID: 31993369). The section was incubated with ab272713 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

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-S100A12/CGRP antibody [EPR23677-111]
(ab272713)

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

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