

## Product datasheet

# Anti-MARCO antibody [EPR22944-64] ab239369

Recombinant RabMAb

8 Images

### Overview

<b>Product name</b>	Anti-MARCO antibody [EPR22944-64]
<b>Description</b>	Rabbit monoclonal [EPR22944-64] to MARCO
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, IHC-Fr, IHC-P, ICC/IF, WB <b>Unsuitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: J774A.1 treated with Lipopolysaccharides whole cell lysate. Mouse spleen lysate. Mouse spleen lysate treated with Peptide: N-glycosidase F (PNGase F). IHC-P: Mouse spleen and liver tissue. IHC-Fr: Mouse spleen tissue. ICC/IF: J774A.1 cells treated with Lipopolysaccharides. IP: Mouse spleen lysate.
<b>General notes</b>	<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>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

**Clone number**                      EPR22944-64  
**Isotype**                                IgG

## Applications

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**The Abpromise guarantee**        Our **Abpromise guarantee** covers the use of ab239369 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
IP		1/30.
IHC-Fr		1/500.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.
WB		1/1000.

**Application notes**                    Is unsuitable for Flow Cyt.

## Target

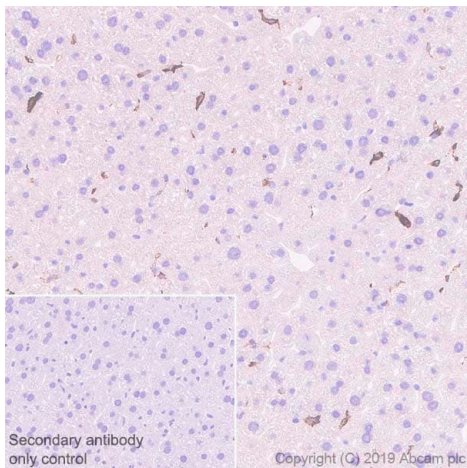
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**Function**                                Pattern recognition receptor (PRR). Binds Gram-positive and Gram-negative bacteria.  
**Sequence similarities**                Contains 1 collagen-like domain.  
  Contains 1 SRCR domain.  
**Cellular localization**                Membrane.

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## Images

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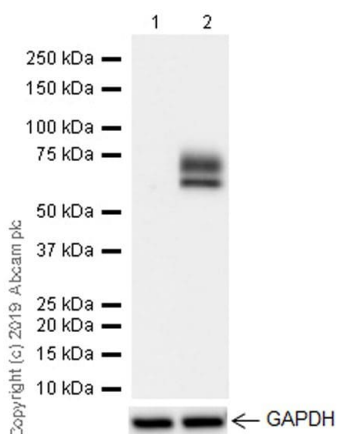


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MARCO antibody [EPR22944-64] (ab239369)

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling MARCO with ab239369 at 1/500 dilution (1.11 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on Kupffer cells of mouse liver is observed. The section was incubated with ab239369 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 solution 2) for 20mins.



Western blot - Anti-MARCO antibody [EPR22944-64] (ab239369)

**All lanes** : Anti-MARCO antibody [EPR22944-64] (ab239369) at 1/1000 dilution

**Lane 1** : Untreated J774A.1 (mouse reticulum cell sarcoma monocyte macrophage), whole cell lysate

**Lane 2** : J774A.1 treated with 1µg/ml Lipopolysaccharides (LPS) for 24 hours, whole cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

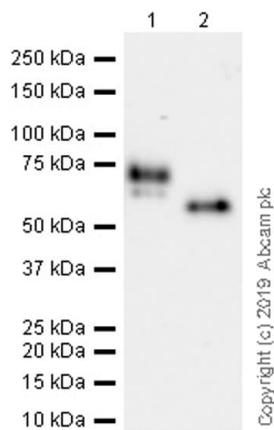
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Observed band size:** 55-75 kDa

Blocking and dilution buffer: 5% NFDM/TBST .

Exposure time: 3 seconds.

The expression of MARCO/Macrophage receptor with collagenous structure is induced by Lipopolysaccharides (LPS) treatment (PMID: 9916718).



Western blot - Anti-MARCO antibody [EPR22944-64] (ab239369)

**All lanes :** Anti-MARCO antibody [EPR22944-64] (ab239369) at 1/1000 dilution

**Lane 1 :** Mouse spleen lysate

**Lane 2 :** Mouse spleen lysate treated with Peptide:N-glycosidase F (PNGase F)

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

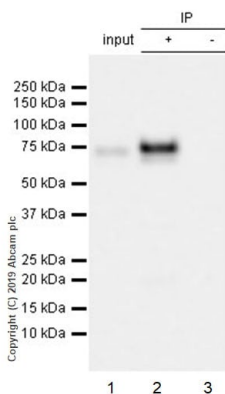
**Observed band size:** 53,75 kDa

**Exposure time:** 15 seconds

75 kDa (glycosylated form), 53 kDa (deglycosylated form).

Blocking and Dilution Buffer and concentration: 5% NFDm/TBST.

N-glycosylation is crucial for MARCO/Macrophage receptor with collagenous structure intercellular trafficking and surface targeting (PMID: 26892079).



Immunoprecipitation - Anti-MARCO antibody [EPR22944-64] (ab239369)

MARCO was immunoprecipitated from 0.35 mg mouse spleen lysate 10µg with ab239369 at 1/30 dilution (2µg in 0.35mg lysates).

Western blot was performed on the immunoprecipitate using ab239369 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

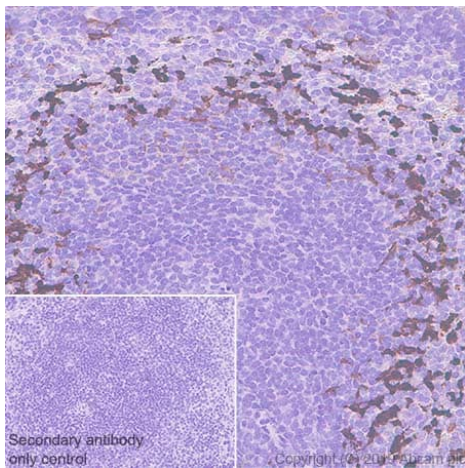
Lane 1: Mouse spleen lysate 10µg.

Lane 2: ab239369 IP in mouse spleen lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab239369 in mouse spleen lysate.

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

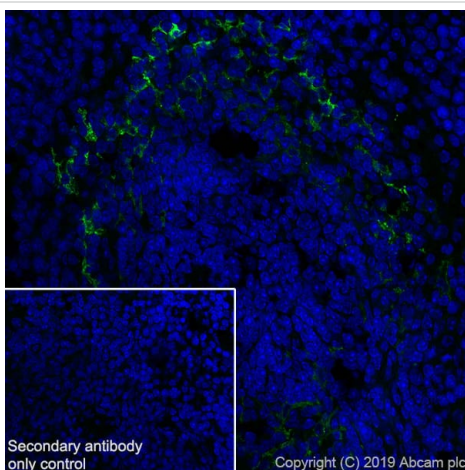
Exposure time: 8 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MARCO antibody [EPR22944-64] (ab239369)

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling MARCO with ab239369 at 1/500 dilution (1.11 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on macrophages of mouse spleen (PMID: 12874264, 15494482) is observed. The section was incubated with ab239369 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> instrument. Counterstained with hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

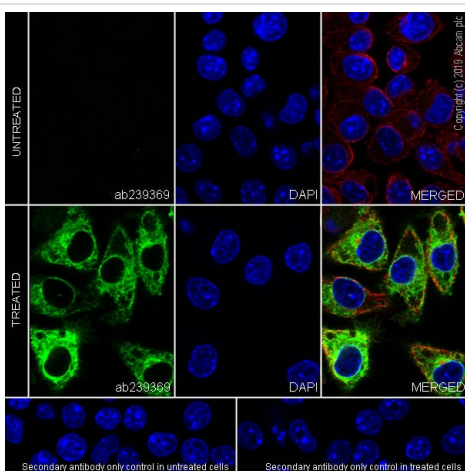
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.



Immunohistochemistry (Frozen sections) - Anti-MARCO antibody [EPR22944-64] (ab239369)

4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen section of mouse spleen tissue labeling MARCO using ab239369 at 1/500 dilution, followed by **ab150077** AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (green). The nuclear counterstain is DAPI (blue). Positive staining on mouse splenic marginal zone (PMID: 24670793) is observed.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



Immunocytochemistry/ Immunofluorescence - Anti-MARCO antibody [EPR22944-64] (ab239369)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized J744A.1 (Mouse reticulum cell sarcoma monocyte macrophage) cells labeling MARCO with ab239369 at 1/100 dilution, followed by **ab150077** AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary at 1/1000 dilution (green). Confocal image showing cytoplasmic staining in J744A.1 cells treated with LPS (1 µg/ml) for 24h. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor<sup>®</sup> 594) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by **ab150077** AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary at 1/1000 dilution.

### 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-MARCO antibody [EPR22944-64] (ab239369)

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

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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