

Product datasheet

Anti-MRP8 antibody [EPR3554] ab92331

Recombinant RabMAb

★★★★★ 6 Abreviews 34 References 10 Images

Overview

Product name	Anti-MRP8 antibody [EPR3554]
Description	Rabbit monoclonal [EPR3554] to MRP8
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human MRP8 aa 50 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P05109
Positive control	WB: Human (adult and fetal) and mouse spleen tissue lysates and PMBC and HL-60 cell lysates. IHC-P: Human cervical carcinoma, breast carcinoma, tonsil and spleen tissues. IP: HL-60 cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 . We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

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. Avoid freeze / thaw cycle.

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3554
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab92331 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

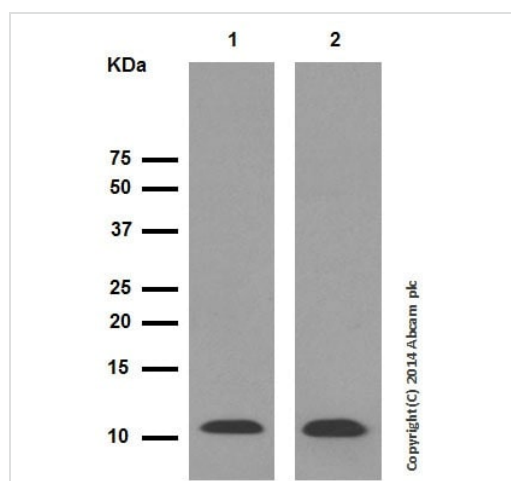
Application	Abreviews	Notes
WB	★★★★★ (4)	1/1000. Predicted molecular weight: 11 kDa. For unpurified use at 1/2000 - 1/10000.
IP		1/30. For unpurified use at 1/20.
IHC-P	★★★★★ (1)	1/500 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/100 - 1/250.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function	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. Promotes phagocyte migration and infiltration of granulocytes at sites of wounding. Plays a role as 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.
Tissue specificity	Expressed by macrophages in chronic inflammations. Also expressed in epithelial cells constitutively or induced during dermatoses.
Sequence similarities	Belongs to the S-100 family. Contains 2 EF-hand domains.
Cellular localization	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.

Images



Western blot - Anti-MRP8 antibody [EPR3554] (ab92331)

All lanes : Anti-MRP8 antibody [EPR3554] (ab92331) at 1/20000 dilution (purified)

Lane 1 : HL-60 (Human promyelocytic leukemia cell line) cell lysate

Lane 2 : Human fetal spleen tissue lysate

Lysates/proteins at 20 µg per lane.

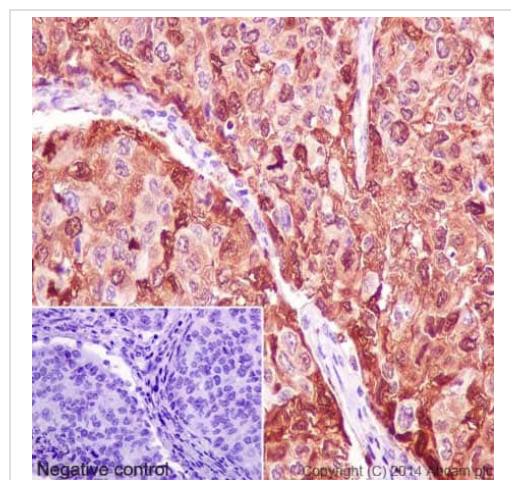
Secondary

All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 11 kDa

Observed band size: 11 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.



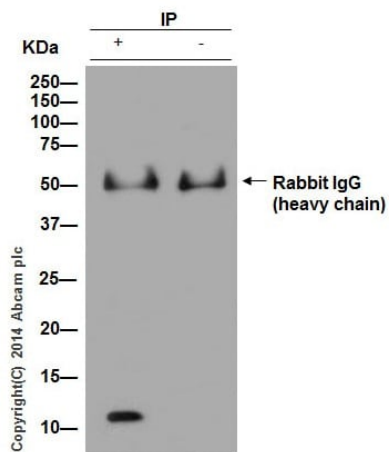
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MRP8 antibody [EPR3554] (ab92331)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervix carcinoma tissue labeling MRP8 with purified ab92331 at 1/500.

Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0. [ab97051](#), an HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500).

Negative control using PBS instead of primary antibody.

Counterstained with hematoxylin.

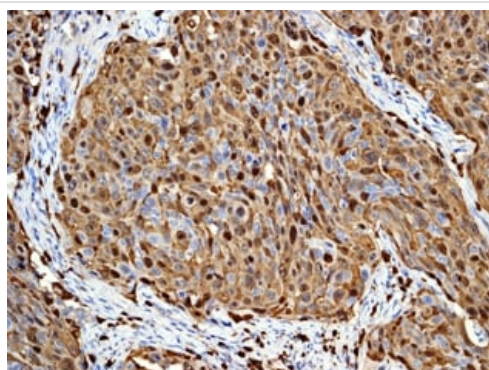


Immunoprecipitation - Anti-MRP8 antibody
[EPR3554] (ab92331)

ab92331 (purified) at 1/30 immunoprecipitating MRP8 in HL-60 (Human promyelocytic leukemia cell line) cell lysate (**Lane 1**).

Lane 2 - rabbit monoclonal IgG instead of ab92331 in HL-60 lysates. For western blotting, a peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/1500).

Blocking/Dilution buffer: 5% NFDm/TBST.

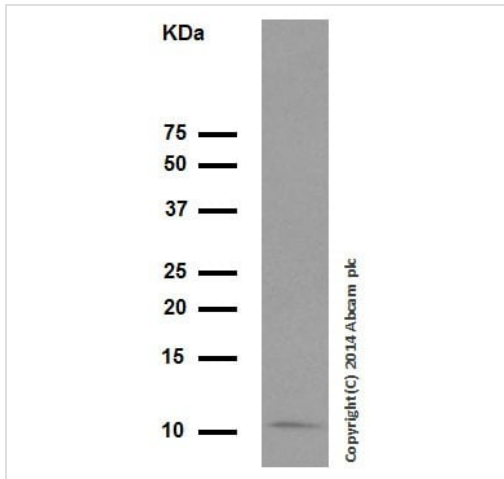


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MRP8 antibody
[EPR3554] (ab92331)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervical carcinoma tissue labeling MRP8 with unpurified ab92331.

Detection: DAB staining.

Heat mediated antigen retrieval was performed via the pressure cooker method before commencing with IHC staining protocol.



Western blot - Anti-MRP8 antibody [EPR3554] (ab92331)

Anti-MRP8 antibody [EPR3554] (ab92331) at 1/2000 dilution (purified) + Mouse spleen tissue lysate at 20 μ g

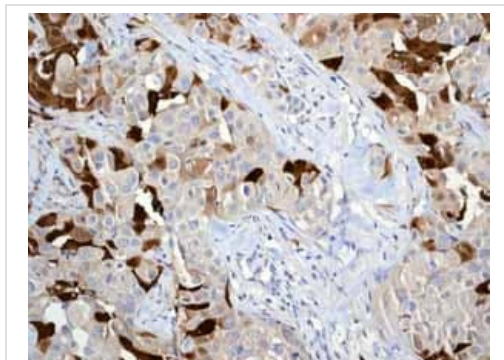
Secondary

Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 11 kDa

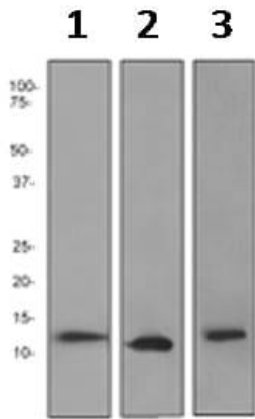
Observed band size: 11 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MRP8 antibody [EPR3554] (ab92331)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labeling MRP8 with unpurified ab92331. Heat mediated antigen retrieval was performed via the pressure cooker method before commencing with IHC staining protocol.



Western blot - Anti-MRP8 antibody [EPR3554] (ab92331)

All lanes : Anti-MRP8 antibody [EPR3554] (ab92331) (unpurified)

Lane 1 : Human spleen tissue lysate

Lane 2 : PBMC cell lysate

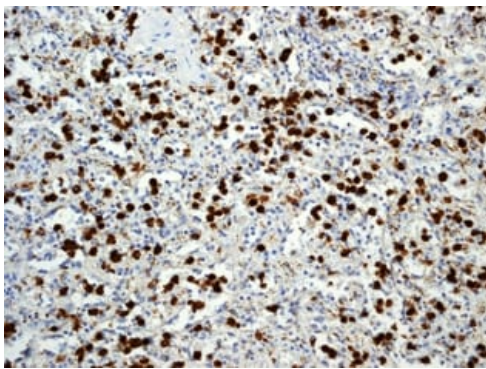
Lane 3 : HL-60 (Human promyelocytic leukemia cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 11 kDa

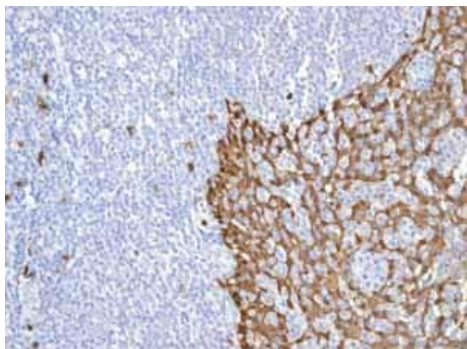


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MRP8 antibody [EPR3554] (ab92331)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue labeling MRP8 with unpurified ab92331.

Detection: DAB staining.

Heat mediated antigen retrieval was performed via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MRP8 antibody [EPR3554] (ab92331)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labeling MRP8 with unpurified ab92331. Heat mediated antigen retrieval was performed via the pressure cooker method before commencing with IHC staining protocol.

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-MRP8 antibody [EPR3554] (ab92331)

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

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