

Product datasheet

Anti-Pyrin antibody [EPR18675] ab214772

KO VALIDATED Recombinant RabMAb

★★★★★ 1 Abreviews 3 Images

Overview

Product name	Anti-Pyrin antibody [EPR18675]
Description	Rabbit monoclonal [EPR18675] to Pyrin
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment. within Mouse Pyrin aa 500-750. The exact sequence is proprietary. Database link: Q9JJ26
Positive control	WB: DC2.4 stable Pyrin expression whole cell lysate; Bone marrow derived-macrophage of wild type C57/B6 mice, untreated or stimulated with LPS. IP: DC2.4 stable Pyrin expression whole cell 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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18675

Isotype

IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab214772** 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		1/1000. Detects a band of approximately 110 kDa (predicted molecular weight: 86 kDa).
IP	★★★★★	1/30.

Target

Function

Probably controls the inflammatory response in myelomonocytic cells at the level of the cytoskeleton organization.

Tissue specificity

Expressed in peripheral blood leukocytes, particularly in mature granulocytes and to a lesser extent in monocytes but not in lymphocytes. Detected in spleen, lung and muscle, probably as a result of leukocyte infiltration in these tissues. Not expressed in thymus, prostate, testis, ovary, small intestine, colon, heart, brain, placenta, liver, kidney, pancreas. Expression detected in several myeloid leukemic, colon cancer, and prostate cancer cell lines.

Involvement in disease

Defects in MEFV are the cause of familial Mediterranean fever autosomal recessive (ARFMF) [MIM:249100]. ARFMF is an inherited disorder characterized by recurrent episodic fever, serosal inflammation and pain in the abdomen, chest or joints. ARFMF is frequently complicated by amyloidosis, which leads to renal failure and can be prophylactically treated with colchicine. ARFMF primarily affects ancestral ethnic groups living around the Mediterranean basin: North African Jews, Armenians, Arabs and Turks. The disease is also distributed in other populations including Greeks, Cypriots, Italians and Spanish, although at a lower prevalence. Defects in MEFV are the cause of familial Mediterranean fever autosomal dominant (ADFMF) [MIM:134610]. ADFMF is characterized by periodic fever, serosal inflammation and pain in the abdomen, chest or joints as seen also in the autosomal recessive form of the disease. It is associated with renal amyloidosis and characterized by colchicine unresponsiveness.

Sequence similarities

Contains 1 B box-type zinc finger.
Contains 1 B30.2/SPRY domain.
Contains 1 DAPIN domain.

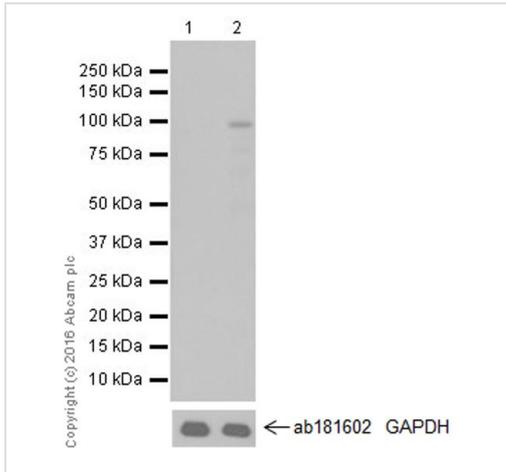
Developmental stage

First detected in bone marrow promyelocytes. Expression increases throughout myelocyte differentiation and peaks in the mature myelomonocytic cells.

Cellular localization

Nucleus and Cytoplasm > cytoskeleton. Associated with microtubules and with the filamentous actin of perinuclear filaments and peripheral lamellar ruffles.

Images



Western blot - Anti-Pyrin antibody [EPR18675] (ab214772)

All lanes : Anti-Pyrin antibody [EPR18675] (ab214772) at 1/1000 dilution

Lane 1 : DC2.4 (Mouse immature dendritic cell line) whole cell lysate

Lane 2 : DC2.4 (Mouse immature dendritic cell line) stable mPyrin expression whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 86 kDa

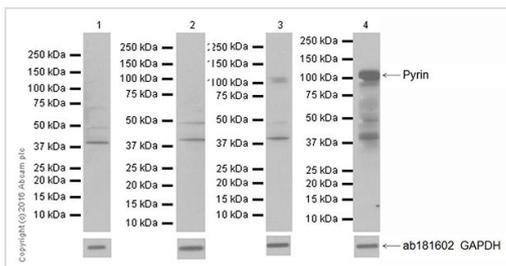
Observed band size: 110 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.

The cells were kindly provided by our collaborator, Feng Shao, National institute of biological sciences, Beijing.



Western blot - Anti-Pyrin antibody [EPR18675] (ab214772)

All lanes : Anti-Pyrin antibody [EPR18675] (ab214772) at 1/1000 dilution

Lane 1 : Bone marrow derived-macrophage of Pylrin -/- mice

Lane 2 : Bone marrow derived-macrophage of Pylrin -/- mice stimulated with LPS

Lane 3 : Bone marrow derived-macrophage of wild type C57/B6 mice

Lane 4 : Bone marrow derived-macrophage of wild type C57/B6 mice stimulated with LPS

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000

dilution

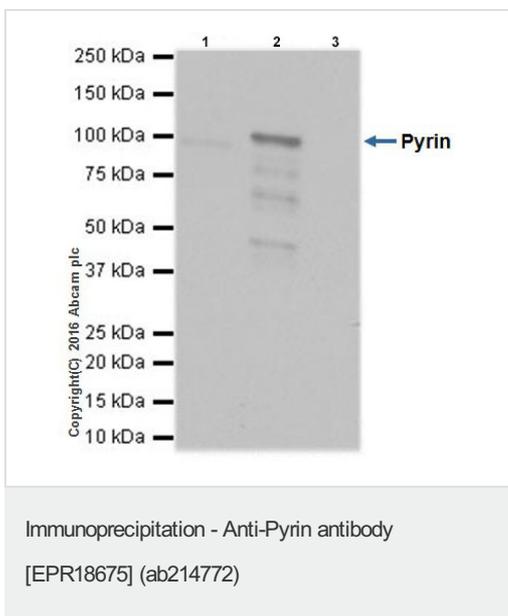
Predicted band size: 86 kDa

Observed band size: 110 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDm/TBST.

The lysate is kindly provided by our collaborator, Feng Shao, National Institute of Biological Sciences, Beijing.



Pyrin was immunoprecipitated from 0.35 mg of DC2.4 (Mouse immature dendritic cell line) stable mPyrin expression whole cell lysate with ab214772 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab214772 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10,000 dilution

Lane 1: ab214772 whole cell lysate from DC2.4 stable mPyrin expression cells 10 μ g (Input).

Lane 2: ab214772 IP in whole cell lysate from DC2.4 stable mPyrin expression cells.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) instead of ab214772 in whole cell lysate from DC2.4 stable mPyrin expression cells.

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

Exposure time: 30 seconds.

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

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