abcam

Product datasheet

Anti-Pyrin antibody [EPR18676] - BSA and Azide free ab222484

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-Pyrin antibody [EPR18676] - BSA and Azide free
Description	Rabbit monoclonal [EPR18676] to Pyrin - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Bone marrow derived-macrophage of wild type C57/B6 mice, untreated and stimulated with LPS or TNF alpha; DC2.4 stable expression whole cell lysate. IP: DC2.4 stable expression whole cell lysate.
General notes	ab222484 is the carrier-free version of **ab195975**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - 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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18676
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab222484 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		Use at an assay dependent concentration. Detects a band of approximately 110 kDa (predicted molecular weight: 86 kDa).
IP		Use at an assay dependent concentration.

Target

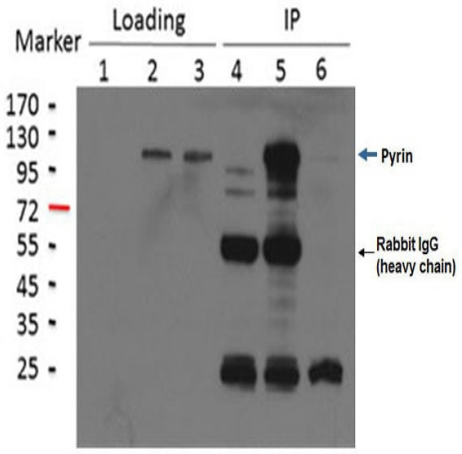
Function Probably controls the inflammatory response in myelomonocytic cells at the level of the cytoskeleton organization.

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



Immunoprecipitation - Anti-Pyrin antibody [EPR18676] - BSA and Azide free (ab222484)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab195975**).

Pyrin was immunoprecipitated from DC2.4 (Mouse immature dendritic cell line) stable Pyrin expression whole cell lysate with **ab195975** at 1/100 dilution. Western blot was performed from the immunoprecipitate using **ab195975** at 1/1000 dilution. Goat anti-Rabbit IgG (H+L), was used as secondary antibody at 1/5000 dilution.

Lane 1: DC2.4 whole cell lysate.

Lane 2: DC2.4 stable Pyrin expression whole cell lysate.

Lane 3: DC2.4 stable Pyrin expression whole cell lysate.

Lane 4: **ab195975** IP in DC2.4 whole cell lysate.

Lane 5: **ab195975** IP in DC2.4 stable Pyrin expression whole cell lysate.

Lane 6: Mock IP (without **ab195975**) in DC2.4 stable Pyrin expression whole cell lysate.

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

Exposure time: 30 seconds.

The image was kindly provided by Dr Feng Shao's lab, NIBS.

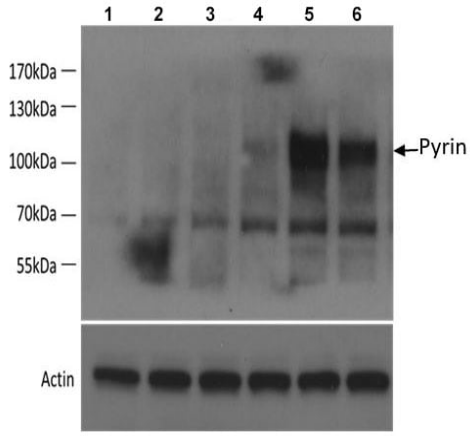
All lanes : Anti-Pyrin antibody [EPR18676] (**ab195975**) at 1/100 dilution

Lane 1 : DC2.4 whole cell lysate.
Lanes 2-3 : DC2.4 stable Pyrin expression whole cell lysate.
Lane 4 : **ab195975** IP in DC2.4 whole cell lysate.
Lane 5 : **ab195975** IP in DC2.4 stable Pyrin expression whole cell lysate.

Lane 6 : Mock IP (without **ab195975**) in DC2.4 stable Pyrin expression whole cell lysate.

Secondary
All lanes : Goat anti-Rabbit IgG (H+L) at 1/5000 dilution

Exposure time: 30 seconds



Western blot - Anti-Pyrin antibody [EPR18676] - BSA and Azide free (ab222484)

All lanes : Anti-Pyrin antibody [EPR18676] (**ab195975**) at 1/1000 dilution

Lane 1 : Bone marrow derived-macrophage of Pyrin -/- mice
Lane 2 : Bone marrow derived-macrophage of Pyrin -/- mice stimulated with LPS
Lane 3 : Bone marrow derived-macrophage of Pyrin -/- mice stimulated with TNF alpha
Lane 4 : Bone marrow derived-macrophage of wild type C57/B6 mice
Lane 5 : Bone marrow derived-macrophage of wild type C57/B6 mice stimulated with LPS
Lane 6 : Bone marrow derived-macrophage of wild type C57/B6 mice stimulated with TNF alpha

Lysates/proteins at 5 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG (H+L) at 1/5000 dilution

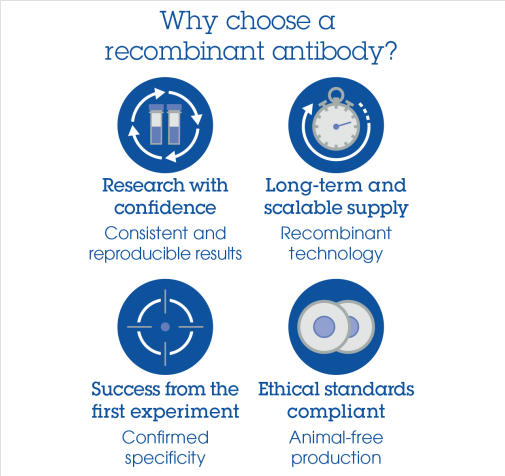
Predicted band size: 86 kDa
Observed band size: 110 kDa

Exposure time: 60 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab195975**).

Blocking/Dilution buffer: 5% milk/TBST.

The image was kindly provided by Dr Feng Shao's lab, NIBS.



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