

Product datasheet

Anti-IL-1 alpha antibody [EPR19904-247] - Low endotoxin, Azide free ab246706

Recombinant RabMAb

2 Images

Overview

Product name	Anti-IL-1 alpha antibody [EPR19904-247] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EPR19904-247] to IL-1 alpha - Low endotoxin, Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human IL-1 alpha aa 100 to the C-terminus. The exact sequence is proprietary. Database link: P01583
Positive control	WB: Human IL-1 alpha recombinant protein (aa 113-271); THP-1 treated with 50 nM phorbol-12-myristate-13-acetate (PMA) and 5 ug/ml lipopolysaccharide (LPS) for 24 hours, cell lysate. Flow Cyt: THP-1 treated with 50 nM phorbol-12-myristate-13-acetate (PMA) and 5 µg/ml lipopolysaccharide (LPS) for 24 hours.
General notes	ab246706 is a carrier-free antibody designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [Low endotoxin, azide-free formats](#) have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

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](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated

antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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
Purification notes	Endotoxin level is less than 1 EU/ml as determined by the TAL test.
Clonality	Monoclonal
Clone number	EPR19904-247
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab246706** 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 34, 20, 15 kDa (predicted molecular weight: 31 kDa).
Flow Cyt		Use at an assay dependent concentration.

Target

Function Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2

release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.

Sequence similarities

Belongs to the IL-1 family.

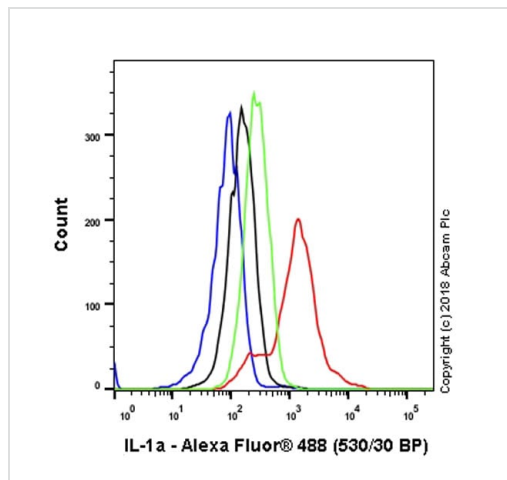
Domain

The similarity among the IL-1 precursors suggests that the amino ends of these proteins serve some as yet undefined function.

Cellular localization

Secreted. The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins.

Images



Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized THP-1 (human monocytic leukemia cell line) cell line treated with 50 nM phorbol-12-myristate-13-acetate (PMA, [ab120297](#)) and 5 µg/ml lipopolysaccharide (LPS) for 24 hours (red) or an untreated control (green) labeling IL-1 alpha with [ab206410](#) at 1/60 dilution compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) at 1/2000 dilution was used as the secondary antibody.

Flow Cytometry - Anti-IL-1 alpha antibody [EPR19904-247] - Low endotoxin, Azide free (ab246706)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide ([ab206410](#)).

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

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

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