

Product datasheet

Anti-Macrophage Inflammatory Protein 3 alpha antibody [EPR22376-58] ab224188

Recombinant RabMAb

[5 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-Macrophage Inflammatory Protein 3 alpha antibody [EPR22376-58] |
| Description | Rabbit monoclonal [EPR22376-58] to Macrophage Inflammatory Protein 3 alpha |
| Host species | Rabbit |
| Tested applications | Suitable for: Flow Cyt (Intra), IHC-P, ICC/IF Unsuitable for: IP or WB |
| Species reactivity | Reacts with: Human |
| Immunogen | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | IHC-P: Human tonsil and Human colon tissues. ICC/IF: THP-1 cells. Flow Cyt (intra): THP-1 cells. |
| 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 | pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR22376-58 |

Isotype

IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab224188 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 |
|------------------|-----------|---------|
| Flow Cyt (Intra) | | 1/600. |
| IHC-P | | 1/2000. |
| ICC/IF | | 1/100. |

Application notes

Is unsuitable for IP or WB.

Target

Function

Chemotactic factor that attracts lymphocytes and, slightly, neutrophils, but not monocytes. Inhibits proliferation of myeloid progenitors in colony formation assays. May be involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells. C-terminal processed forms have been shown to be equally chemotactically active for leukocytes. Possesses antibacterial activity E.coli ATCC 25922 and S.aureus ATCC 29213.

Tissue specificity

Expressed predominantly in the liver, lymph nodes, appendix, peripheral blood lymphocytes, and fetal lung. Low levels seen in thymus, prostate, testis, small intestine and colon.

Sequence similarities

Belongs to the intercrine beta (chemokine CC) family.

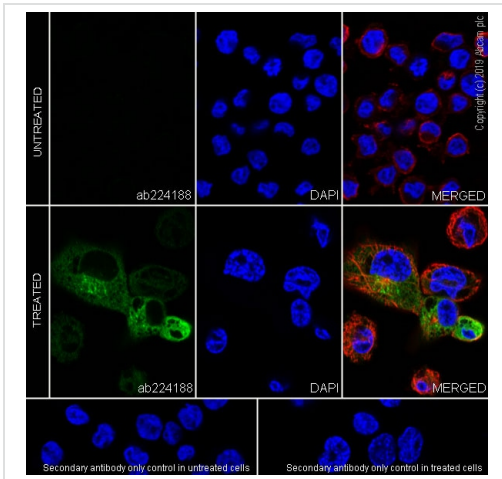
Post-translational modifications

C-terminal processed forms which lack 1, 3 or 6 amino acids are produced by proteolytic cleavage after secretion from peripheral blood monocytes.

Cellular localization

Secreted.

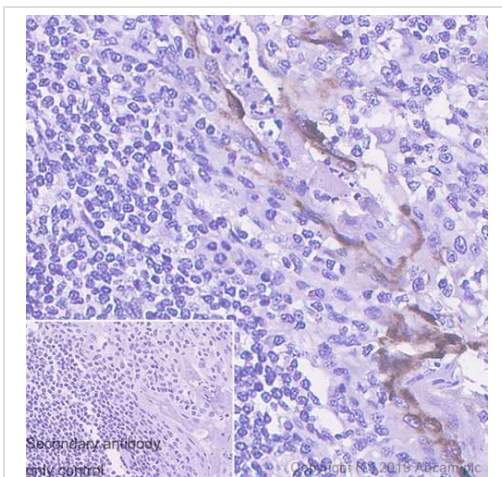
Images



Immunocytochemistry/ Immunofluorescence - Anti-Macrophage Inflammatory Protein 3 alpha antibody [EPR22376-58] (ab224188)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized THP-1 (human monocytic leukemia monocyte) cells labelling Macrophage Inflammatory Protein 3 alpha with ab224188 at 1/100 dilution, followed by Ab224188 anti-Macrophage Inflammatory Protein 3 alpha [ab150077](#) AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing increased cytoplasmic staining in THP-1 cells treated with Phorbol-12-myristate-13-acetate (PMA, 100ng/ml) for 56 h, then together with lipopolysaccharide (1ug/ml) and Brefeldin A (300ng/ml) for another 16 h is observed. Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is Ab224188 anti-Macrophage Inflammatory Protein 3 alpha [ab150077](#) AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.

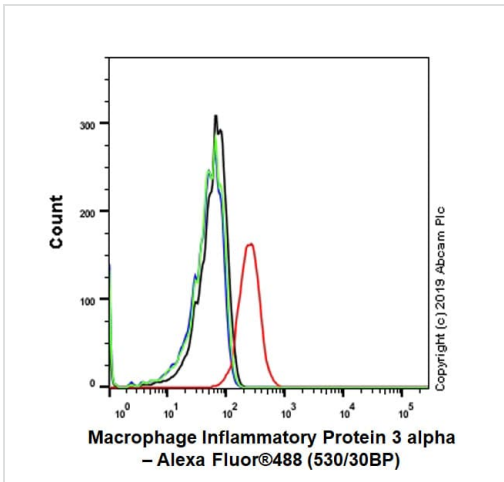


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Macrophage Inflammatory Protein 3 alpha antibody [EPR22376-58] (ab224188)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling Macrophage Inflammatory Protein 3 alpha with ab224188 at 1/2000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on the epithelial like cells on the human tonsil (PMID: 15307135). Counterstained with Hematoxylin.

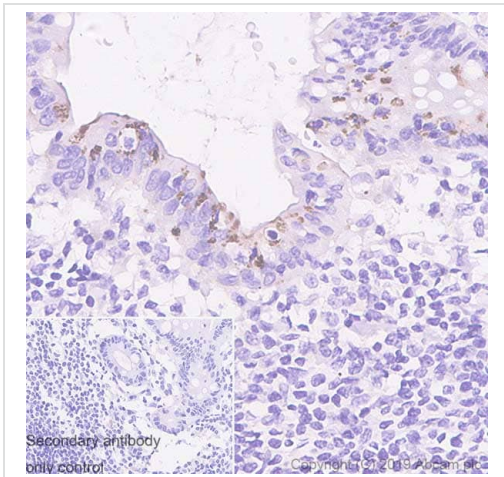
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Flow Cytometry (Intracellular) - Anti-Macrophage Inflammatory Protein 3 alpha antibody [EPR22376-58] (ab224188)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized THP-1 (Human monocytic leukemia monocyte) treated with 100ng/ml PMA for 56h, then together with 1ug/ml lipopolysaccharide and 300ng/ml Brefeldin A for another 16h (Red) / Untreated control (Green) cells labelling Macrophage Inflammatory Protein 3 alpha with ab224188 at 1/600 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730, Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Macrophage Inflammatory Protein 3 alpha antibody [EPR22376-58] (ab224188)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Macrophage Inflammatory Protein 3 alpha with ab224188 at 1/2000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on the follicle-associated epithelium in the human colon (PMID:14997037). Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

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"

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