Product name: Anti-Macrophage Inflammatory Protein 1 alpha / CCL3 antibody [EPR19900-275]

Description: Rabbit monoclonal [EPR19900-275] to Macrophage Inflammatory Protein 1 alpha / CCL3

Host species: Rabbit

Tested applications: Suitable for: WB, ICC/IF, Flow Cyt
Unsuitable for: IHC-P

Species reactivity: Reacts with: Human

Immunogen: Recombinant fragment within Human Macrophage Inflammatory Protein 1 alpha/ CCL3 aa 1 to the C-terminus. The exact sequence is proprietary.
Database link: P10147

Positive control: WB: THP-1 (treated with 80nM TPA overnight, then 100 ng/ml LPS for 3 hours and then 300 ng/ml Brefeldin A added for the last 3 hours) whole cell lysate. ICC/IF: THP-1 cells (treated with 80nM TPA overnight, then treated with 100ng/ml LPS for 3h and together with 300ng/ml BFA for another 3h). Flow cyt: THP-1 cells (treated with 80nM TPA overnight, then treated with 100ng/ml LPS for 3h and together with 300ng/ml BFA for another 3h).

General notes: Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.
This product is a recombinant rabbit monoclonal antibody.

Properties:

Form: Liquid


Storage buffer: Preservative: 0.01% Sodium azide
Constituents: PBS, 40% Glycerol, 0.05% BSA

Purity: Protein A purified

Clonality: Monoclonal
Clone number: EPR19900-275
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab206429 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Abreviews</th>
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<tr>
<td>WB</td>
<td>1/1000.</td>
<td>Detects a band of approximately 12 kDa (predicted molecular weight: 10 kDa).</td>
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<tr>
<td>ICC/IF</td>
<td>1/100.</td>
<td></td>
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<tr>
<td>Flow Cyt</td>
<td>1/600.</td>
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Application notes: Is unsuitable for IHC-P.

Target

Function: Monokine with inflammatory and chemokinetic properties. Binds to CCR1, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant MIP-1-alpha induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV).

Sequence similarities: Belongs to the intercrine beta (chemokine CC) family.

Post-translational modifications: N-terminal processed form LD78-alpha(4-69) is produced by proteolytic cleavage after secretion from HTLV1-transformed T-cells.

Cellular localization: Secreted.

Images
Western blot - Anti-Macrophage Inflammatory Protein 1 alpha / CCL3 antibody [EPR19900-275] (ab206429)

All lanes: Anti-Macrophage Inflammatory Protein 1 alpha / CCL3 antibody [EPR19900-275] (ab206429) at 1/1000 dilution

Lane 1: Untreated THP-1 (human monocytic leukemia cell line) whole cell lysate

Lane 2: THP-1 (1 treated with 80nM TPA overnight, then 100 ng/ml LPS for 3 hours and then 300 ng/ml Brefeldin A was added for the last 3 hours) 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: 10 kDa

Observed band size: 12 kDa

why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking and dilution buffer: 5% NFDM/TBST.

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized THP-1 (human monocytic leukemia cell line) cells labeling Macrophage Inflammatory Protein 1 alpha / CCL3 with ab206429 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining in THP-1 cells treated with TPA (80nM overnight), then treated with 100ng/ml LPS for 3h and together with 300ng/ml BFA for another 3h. The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.
Flow cytometric analysis of 4% paraformaldehyde-fixed, 0.1% Tween 20 permeabilized THP-1 (human monocytic leukemia cell line) (treated with 80nM TPA overnight, then treated with 100ng/ml LPS for 3h and together with 300ng/ml BFA for another 3 hr) (red) or untreated (green) cells labeling Macrophage Inflammatory Protein 1 alpha / CCL3 with ab206429 at 1/600 dilution compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabelled 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.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"