abcam

Product datasheet

Anti-CCL4/MIP-1 beta antibody [EPR23610-40] ab254371

Recombinant RabMAb

5 Images

Overview

Product name	Anti-CCL4/MIP-1 beta antibody [EPR23610-40]
Description	Rabbit monoclonal [EPR23610-40] to CCL4/MIP-1 beta
Host species	Rabbit
Specificity	This antibody has cross-reactivity with CCL4L1. There is about 97% homology between CCL4/MIP-1 beta and CCL4L1 in terms of the immunogen designed from CCL4/MIP-1 beta.
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC/IF, Dot blot **Unsuitable for:** IHC-P,IP or WB
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: THP-1 cells (treated with PMA, 100nM for 16 hours, then with lipopolysaccharide (LPS, 100 ng/ml) for 4 hours and with BFA (1 Âµg/ml) for another 3 hours.). Flow Cyt (intra): THP-1 (treated with 100nM phorbol 12-myristate 13-acetate (PMA) for 16 hours, then 100 ng/ml lipopolysaccharide (LPS) for 4 hours and add 1 ug/ml Brefeldin A (BFA) for another 3 hours) and RAW 264.7 cells (treated with 100 ng/ml lipopolysaccharide (LPS) for 4 hours and 1 ug/ml Brefeldin A (BFA) for another 3 hours).
General notes	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 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: 59.94% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23610-40
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab254371 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

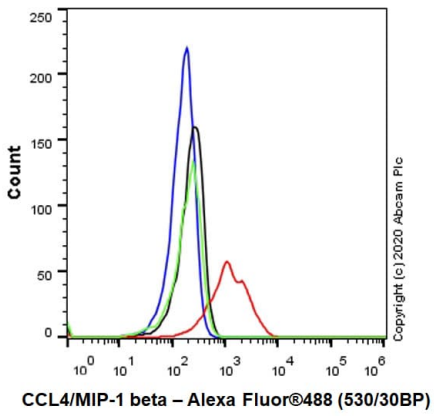
Application	Abreviews	Notes
Flow Cyt (Intra)		1/50.
ICC/IF		1/100.
Dot blot		1/1000.

Application notes Is unsuitable for IHC-P,IP or WB.

Target

Function	Monokine with inflammatory and chemokinetic properties. Binds to CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant MIP-1-beta induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form MIP-1-beta(3-69) retains the abilities to induce down-modulation of surface expression of the chemokine receptor CCR5 and to inhibit the CCR5-mediated entry of HIV-1 in T-cells. MIP-1-beta(3-69) is also a ligand for CCR1 and CCR2 isoform B.
Sequence similarities	Belongs to the intercrine beta (chemokine CC) family.
Post-translational modifications	N-terminal processed form MIP-1-beta(3-69) is produced by proteolytic cleavage after secretion from peripheral blood lymphocytes.
Cellular localization	Secreted.

Images

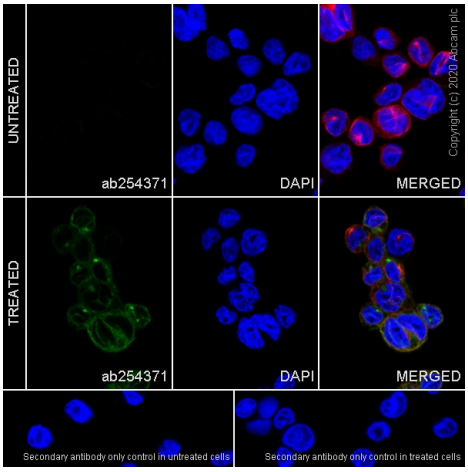


Flow Cytometry (Intracellular) - Anti-CCL4/MIP-1 beta antibody [EPR23610-40] (ab254371)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized THP-1 (Human monocytic leukemia monocyte) (treated with 100nM phorbol 12-myristate 13-acetate (PMA) for 16 hours, then 100 ng/ml lipopolysaccharide (LPS) for 4 hours and add 1 ug/ml Brefeldin A (BFA) for another 3 hours) (Red)/Untreated control (Green) cells labelling CCL4/MIP-1 beta with ab254371 at 1/500 dilution (0.1ug)/ compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Black) 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 dilution was used as the secondary antibody.

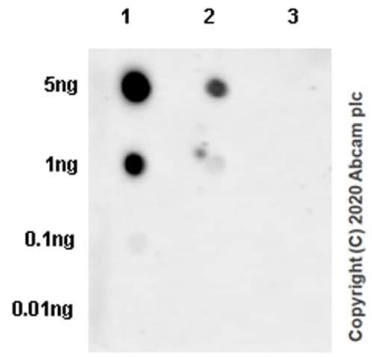
The expression pattern is consistent with what is described in the literature (PMID:29669317).



Immunocytochemistry/ Immunofluorescence - Anti-CCL4/MIP-1 beta antibody [EPR23610-40] (ab254371)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized THP-1 cells labelling CCL4/MIP-1 beta with ab254371 at 1/100 (5.45 ug/ml) dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in THP-1 cells treated with phorbol 12-myristate 13-acetate (PMA, 100nM) for 16 hours, then with lipopolysaccharide (LPS, 100 ng/ml) for 4 hours and with BFA (1 ug/ml) for another 3 hours. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Dot Blot - Anti-CCL4/MIP-1 beta antibody [EPR23610-40] (ab254371)

Dot blot analysis of CCL4/MIP-1 beta using ab254371 at 1/1000 (0.545ug/ml) dilution followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20,000 dilution.

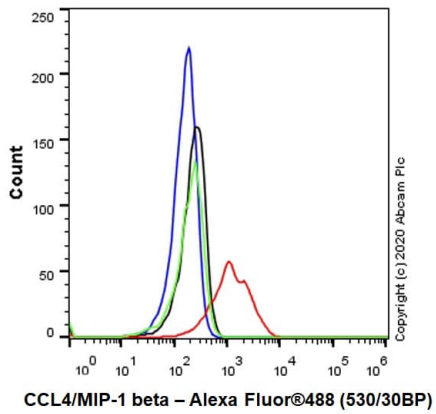
Lane 1: Human CCL4/MIP-1 beta immunogen recombinant protein

Lane 2: Human CCL4L1 recombinant protein

Lane 3: Bovine serum albumin (BSA)

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

Exposure time: 114 seconds



Flow Cytometry (Intracellular) - Anti-CCL4/MIP-1 beta antibody [EPR23610-40] (ab254371)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) (treated with 100 ng/ml lipopolysaccharide (LPS) for 4 hours and 1 ug/ml Brefeldin A (BFA) for another 3 hours) (Red) /Untreated control (Green) cells labelling CCL4/MIP-1 beta with ab254371 at 1/50 dilution (1ug)/ compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Black) 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 dilution was used as the secondary antibody.

The expression pattern is consistent with what is described in the literature (PMID:32230927).

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(ab254371)

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