Product datasheet

Anti-CCR2 antibody [EPR19698] ab203128

Recombinant RabMAb

Overview

Product name Anti-CCR2 antibody [EPR19698]

Description Rabbit monoclonal [EPR19698] to CCR2

Host species Rabbit

Tested applications Suitable for: ICC/IF, WB

Species reactivity Reacts with: Mouse

Immunogen This product was produced with the following immunogens:
Recombinant fragment within Mouse CCR2 aa 1-100. The exact sequence is proprietary.
Database link: P51683

Recombinant fragment within Mouse CCR2 aa 300 to the C-terminus. The exact sequence is proprietary.
Database link: P51683

Positive control WB: Mouse spleen and brain lysates; RAW 264.7 and NIH/3T3 whole cell lysates; J774A.1 whole cell lysates untreated and treated with 500U/ml IFN gamma for 4 hours. ICC/IF: RAW 264.7 and J774A.1 cells.

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 buffer: Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity: Protein A purified
Clonality: Monoclonal
Clone number: EPR19698
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab203128 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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<td>ICC/IF</td>
<td>1/100.</td>
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<tr>
<td>WB</td>
<td>1/1000. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).</td>
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Target

Function: Receptor for the MCP-1, MCP-3 and MCP-4 chemokines. Transduces a signal by increasing the intracellular calcium ions level. Alternative coreceptor with CD4 for HIV-1 infection.
Sequence similarities: Belongs to the G-protein coupled receptor 1 family.
Post-translational modifications: N-glycosylated.
Cellular localization: Cell membrane.

Images

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized J774A.1 (Mouse macrophage reticulum cell sarcoma cell line) cells labeling CCR2 with ab203128 at 1/100 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).
Confocal image showing cytoplasmic staining on J774A.1 cell line.
The nuclear counterstain is DAPI (blue).
Tubulin is detected with ab195889 (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 at 1/1000 dilution.
Western blot - Anti-CCR2 antibody [EPR19698] (ab203128)

All lanes: Anti-CCR2 antibody [EPR19698] (ab203128) at 1/1000 dilution

Lane 1: Mouse spleen lysate
Lane 2: Mouse brain lysate
Lane 3: RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate
Lane 4: NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 43 kDa
Observed band size: 43 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) cells labeling CCR2 with ab203128 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic staining on RAW 264.7 cell line.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with ab195889 (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 at 1/1000 dilution.
**Western blot - Anti-CCR2 antibody [EPR19698] (ab203128)**

**All lanes**: Anti-CCR2 antibody [EPR19698] (ab203128) at 1/5000 dilution

**Lane 1**: Untreated J774A.1 (Mouse macrophage reticulum cell sarcoma cell line) whole cell lysate

**Lane 2**: J774A.1 (Mouse macrophage reticulum cell sarcoma cell line) treated with 500U/ml IFN gamma for 4 hours whole cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size**: 43 kDa

**Observed band size**: 43 kDa

**Exposure time**: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Pro-inflammatory cytokines such as IFN-gamma, IL-1, or TNF treatment decreases CCR2 expression (PMID: 9558092).

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

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