Product name: Anti-CX3CR1 antibody
Description: Rabbit polyclonal to CX3CR1
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, Flow Cyt, WB, IHC-P
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide corresponding to Human CX3CR1 aa 2-21 (N terminal).
Database link: P49238
(Peptide available as ab8125)

Positive control: Western Blot: Human spleen tissue lysate, A431, A549, Caco-2, Daudi, HeLa, THP-1 cell lysates.

General notes: The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C.
Storage buffer: pH: 7.2
Preservative: 0.02% Sodium azide
Constituent: PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG
The Abpromise guarantee

Our Abpromise guarantee covers the use of ab8021 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>★★★★★ (3)</td>
<td>Use a concentration of 10 µg/ml.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>★★★★★ (1)</td>
<td>Use a concentration of 0.1 µg/ml. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★ (2)</td>
<td>Use a concentration of 1 - 2 µg/ml. Can be blocked with CX3CR1 peptide (ab8125).</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★★ ❨ (2)</td>
<td>Use a concentration of 2 µg/ml.</td>
</tr>
</tbody>
</table>

Target

Function

Receptor for the CX3C chemokine fractalkine and mediates both its adhesive and migratory functions. Acts as coreceptor with CD4 for HIV-1 virus envelope protein (in vitro). Isoform 2 and isoform 3 seem to be more potent HIV-1 coreceptors than isoform 1.

Tissue specificity

Expressed in lymphoid and neural tissues.

Sequence similarities

Belongs to the G-protein coupled receptor 1 family.

Cellular localization

Cell membrane.

Images

All lanes:

- Lane 1: A431 cell lysates
- Lane 2: A549 cell lysates
- Lane 3: Caco-2 cell lysates
- Lane 4: Daudi cell lysates
- Lane 5: HeLa cell lysates

Lysates/proteins at 15 µg per lane.

Secondary

All lanes: Rabbit IgG antibody (HRP) at 1/10000 dilution

Developed using the ECL technique.
10% gel.
Running conditions: 130v for 2 hours.
Transfer conditions: wet, 250mA, 2 hrs (Nitrocellulose membrane).
Blocking condition: 5% non-fat dry milk in TBS, 4C, overnight.
Primary antibody incubation: Room temperature for 1 hour.
Secondary antibody incubation: Room temperature for 1 hour.
Washing conditions: 15 mL TSBT, 3 x 10 minutes.
Exposure: ECL solution

Immunofluorescence of CX3CR1 in mouse heart tissue with ab8021 at 20 ug/ml.
Green: ab8021 Blue: DAPI staining

Immunohistochemical analysis of paraffin-embedded rat heart tissue labeling CX3CR1 with ab8021 at 2 µg/mL.
Flow cytometry analysis of THP-1 cells using CX3CR1 antibody (ab8021) at 0.1 μg/ml.

Green: Isotype control

Red: CX3CR1 antibody (ab8021)

Immunocytochemistry/ Immunofluorescence analysis of 4% paraformaldehyde fixed K562 cells labeling CX3CR1 with ab8021 at 10 μg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).

All lanes:

All lanes: THP-1 cell line

Lysates/proteins at 15 μg per lane.

Secondary

All lanes: Rabbit IgG antibody (HRP) at 1/10000 dilution

Developed using the ECL technique.

10% gel.

Running conditions: 130v for 2 hours.

Transfer conditions: wet, 250mA, 2 hrs (Nitrocellulose membrane).
Blocking condition: 5% non-fat dry milk in TBS, 4C, overnight.
Primary antibody incubation: Room temperature for 1 hour.
Secondary antibody incubation: Room temperature for 1 hour.
Washing conditions: 15 mL TSBT, 3 x 10 minutes.
Exposure: ECL solution

All lanes: Anti-CX3CR1 antibody (ab8021) at 1 µg/ml

Lane 1: Human spleen lysate with absence of blocking peptide.
Lane 2: Human spleen lysate with presence of blocking peptide.

Observed band size: 50 kDa

Mouse heart tissue stained for CX3CR1 using ab8021 at 2 µg/ml in immunohistochemical analysis.

Immunohistochemical staining (paraffin embedded) of human heart tissue using anti-CX3CR1 at 2 µg/ml.
Immunofluorescence analysis of rat heart tissue labeling CX3CR1 with ab8021 at 2 µg/mL. DAPI stain in blue.

Immunofluorescence of CX3CR1 in Human Heart cells using ab8021 at 10 µg/ml.

Anti-CX3CR1 antibody (ab8021) at 1 µg/ml + Recombinant Human CX3CR1 protein (ab112276) at 0.01 µg

**Secondary**
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Exposure time:** 4 minutes

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

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