Product datasheet

Anti-CX3CR1 antibody ab8020

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Overview

Product name  Anti-CX3CR1 antibody
Description  Rabbit polyclonal to CX3CR1
Host species  Rabbit
Tested applications  Suitable for: IHC-P, WB
Unsuitable for: ICC/IF
Species reactivity  Reacts with: Human
Predicted to work with: Mouse, Rat
Immunogen  Synthetic peptide, corresponding to amino acids 175-189 of Human CX3CR 1.
Positive control  THP-1 cell lysate
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

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at +4°C.
Storage buffer  pH: 7.2
Preservative: 0.02% Sodium azide
Purity  Affinity purified
Clonality  Polyclonal
Isotype  IgG

Applications

The Abpromise guarantee  Our Abpromise guarantee covers the use of ab8020 in the following tested applications.
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: Anti-CX3CR1 antibody (ab8020) at 1 µg/ml

Lane 1: Wild-type THP-1 cell lysate
Lane 2: CX3CR1 knockout THP-1 cell lysate
Lane 3: Human Spleen cell lysate
Lane 4: HeLa cell lysate
Lane 5: Caco-2 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 50 kDa
Observed band size: 42 kDa

False colour image of Western blot: Anti-CX3CR1 antibody staining at 1 µg/ml, shown in green; Mouse anti-Alpha Tubulin [DM1A] (ab7291) loading control staining at 1/20000 dilution, shown in red.
In Western blot, ab8020 was shown to bind specifically to CX3CR1. A band was observed at 42 kDa in wild-type THP-1 cell lysates with no signal observed at this size in CX3CR1 knockout cell line.

Application notes
Is unsuitable for ICC/IF.
ab273713 (knockout cell lysate ab275510). To generate this image, wild-type and CX3CR1 knockout THP-1 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (ab216776) at 1/20000 dilution.

ab8020 at 10µg/ml staining CX3CR1 in human spleen cells by IHC

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CX3CR1 antibody (ab8020)

All lanes: Anti-CX3CR1 antibody (ab8020) at 1/500 dilution

Lane 1: THP-1 cell lysate with absence of blocking peptide
Lane 2: THP-1 cell lysate with presence of blocking peptide

Predicted band size: 50 kDa
Observed band size: 50 kDa

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

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