

Datasheet: AHP1589

BATCH NUMBER 170348

Description:	RABBIT ANTI HUMAN CX3CR1 (N-TERMINAL)
Specificity:	CX3CR1 (N-TERMINAL)
Other names:	FRACTALKINE RECEPTOR
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	▪			2.0ug/ml
Western Blotting	▪			0.5 - 1.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat, Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antiserum to human CX3CR1 (NT) was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A peptide corresponding to amino acids 2-21 of human CX3CR1.
External Database Links	<p>UniProt: P49238 Related reagents</p> <p>Entrez Gene: 1524 CX3CR1 Related reagents</p>
Synonyms	CMKBRL1, GPR13
RRID	AB_2087421
Specificity	<p>Rabbit anti Human CX3CR1 antibody recognizes the N-terminal region of Human CX3CR1, a 40.4 kDa seven trans-membrane protein.</p> <p>CX3CR1, also known as fractalkine receptor, is the receptor for CX3CL1 and acts as a co-receptor with CD4 for the HIV-1 envelope protein. It is expressed in a variety of human tissues and mediates leucocyte adhesion and migration.</p>
Histology Positive Control Tissue	Human heart
Western Blotting	AHP1589 detects a band of approximately 50kDa in human spleen cell lysates.
References	<ol style="list-style-type: none"> Viladomiu, M. <i>et al.</i> (2017) Cooperation of Gastric Mononuclear Phagocytes with <i>Helicobacter pylori</i> during Colonization. J Immunol. 198 (8): 3195-204. Lorenzini, I. <i>et al.</i> (2023) Moderate intrinsic phenotypic alterations in C9orf72 ALS/FTD iPSC-microglia despite the presence of C9orf72 pathological features. Front Cell Neurosci. 17: 1179796. Matatall, K.A. <i>et al.</i> (2025) TET2-mutant myeloid cells mitigate Alzheimer's disease progression via CNS infiltration and enhanced phagocytosis in mice. Cell Stem Cell. S1934-5909(25)00228-0. Jun 24 [Epub ahead of print].
Further Reading	<ol style="list-style-type: none"> Combadiere, C. <i>et al.</i> (1995) Cloning, chromosomal localization, and RNA expression of a human beta chemokine receptor-like gene. DNA Cell Biol. 14 (8): 673-80. Raport, C.J. <i>et al.</i> (1995) The orphan G-protein-coupled receptor-encoding gene V28 is closely related to genes for chemokine receptors and is expressed in lymphoid and neural tissues. Gene. 163 (2): 295-9. Combadiere, C. <i>et al.</i> (1998) Gene cloning, RNA distribution, and functional expression of mCX3CR1, a mouse chemotactic receptor for the CX3C chemokine fractalkine.

[Biochem Biophys Res Commun. 253 \(3\): 728-32.](#)

4. Combadiere, C. *et al.* (1998) Identification of CX3CR1. A chemotactic receptor for the human CX3C chemokine fractalkine and a fusion coreceptor for HIV-1. [J Biol Chem. 273 \(37\): 23799-804.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/AHP1589>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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