

Datasheet: AHP442

Description:	RABBIT ANTI HUMAN CD184 / CXCR4
Specificity:	CD184 / CXCR4 (N-TERMINAL)
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
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1/1000 - 1/2000

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography
Antiserum Preparation	Antisera to human CD184 / CXCR4 were raised by repeated immunisation of rabbits with highly purified antigen.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Peptide sequence corresponding to amino acids 1-14 of human CD184 / CXCR4.

External Database Links

UniProt:

[P61073](#) [Related reagents](#)

Entrez Gene:

[7852](#) CXCR4 [Related reagents](#)

RRID AB_322743

Specificity **Rabbit anti Human CD184 / CXCR4 antibody** recognizes the human G-protein-coupled chemokine receptor CD184, also known as CXCR4. CD184 is a 352 amino acid ~40 kDa cell surface protein known to act as a co-factor in HIV infection of CD4⁺ T cells ([Bleul *et al.* 1997](#)). Mutations in the CD184 gene are associated with WHIM syndrome ([WHIMS](#)), an inherited combined immunodeficiency disease ([Taniuchi *et al.*](#)).

References

1. Nguyen, D.H. and Taub, D. (2002) CXCR4 function requires membrane cholesterol: implications for HIV infection. [J Immunol. 168: 4121-6.](#)
 2. Zaitseva, M. *et al.* (2005) Increased CXCR4-dependent HIV-1 fusion in activated T cells: role of CD4/CXCR4 association. [J Leukoc Biol. 78: 1306-17.](#)
 3. Moll, N.M. *et al.* (2009) Imaging correlates of leukocyte accumulation and CXCR4/CXCL12 in multiple sclerosis. [Arch Neurol. 66: 44-53.](#)
 4. Rubie, C. *et al.* (2008) Differential CXC receptor expression in colorectal carcinomas. [Scand J Immunol. 68: 635-44.](#)
 5. Rubie, C. *et al.* (2006) Chemokine expression in hepatocellular carcinoma versus colorectal liver metastases. [World J Gastroenterol. 12: 6627-33.](#)
 6. Oliveira Frick, V. *et al.* (2011) Changes in CXCL12/CXCR4-chemokine expression during onset of colorectal malignancies. [Tumour Biol. 32: 189-96.](#)
 7. Omland, S.H. *et al.* (2017) Cancer associated fibroblasts (CAFs) are activated in cutaneous basal cell carcinoma and in the peritumoural skin. [BMC Cancer. 17 \(1\): 675.](#)
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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/AHP442>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M384576:210513'

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