

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 ion exchange 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 Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Peptide sequence corresponding to amino acids 1-14 of human CD184 / CXCR4.
External Database Links	UniProt:

Entrez Gene:

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

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. Taniuchi, S. et al. (2005) The role of a mutation of the CXCR4 gene in WHIM syndrome. Haematologica. 90:1271-1272. 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. Moll, N.M. et al. (2009) Imaging correlates of leukocyte accumulation and CXCR4/CXCL12 in multiple sclerosis. Arch Neurol. 66: 44-53.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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 (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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