

## Datasheet: AHP442

**BATCH NUMBER 167600**

<b>Description:</b>	RABBIT ANTI HUMAN CD184 / CXCR4
<b>Specificity:</b>	CD184 / CXCR4 (N-TERMINAL)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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<sub>3</sub>)

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Peptide sequence corresponding to amino acids 1-14 of human CD184 / CXCR4.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P61073</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7852</a>    CXCR4    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_322743
<b>Specificity</b>	<b>Rabbit anti Human CD184 / CXCR4 antibody</b> 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 <sup>+</sup> T cells ( <a href="#">Bleul <i>et al.</i> 1997</a> ). Mutations in the CD184 gene are associated with WHIM syndrome ( <a href="#">WHIMS</a> ), an inherited combined immunodeficiency disease ( <a href="#">Taniuchi <i>et al.</i></a> ).
<b>References</b>	<ol style="list-style-type: none"> <li>1. Nguyen, D.H. and Taub, D. (2002) CXCR4 function requires membrane cholesterol: implications for HIV infection. <a href="#">J Immunol. 168: 4121-6.</a></li> <li>2. Zaitseva, M. <i>et al.</i> (2005) Increased CXCR4-dependent HIV-1 fusion in activated T cells: role of CD4/CXCR4 association. <a href="#">J Leukoc Biol. 78: 1306-17.</a></li> <li>3. Rubie, C. <i>et al.</i> (2006) Chemokine expression in hepatocellular carcinoma versus colorectal liver metastases. <a href="#">World J Gastroenterol. 12: 6627-33.</a></li> <li>4. Rubie, C. <i>et al.</i> (2008) Differential CXC receptor expression in colorectal carcinomas. <a href="#">Scand J Immunol. 68: 635-44.</a></li> <li>5. Moll, N.M. <i>et al.</i> (2009) Imaging correlates of leukocyte accumulation and CXCR4/CXCL12 in multiple sclerosis. <a href="#">Arch Neurol. 66: 44-53.</a></li> <li>6. Oliveira Frick, V. <i>et al.</i> (2011) Changes in CXCL12/CXCR4-chemokine expression during onset of colorectal malignancies. <a href="#">Tumour Biol. 32: 189-96.</a></li> <li>7. Omland, S.H. <i>et al.</i> (2017) Cancer associated fibroblasts (CAFs) are activated in cutaneous basal cell carcinoma and in the peritumoural skin. <a href="#">BMC Cancer. 17 (1): 675.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP442">https://www.bio-rad-antibodies.com/SDS/AHP442</a> 10040
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

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

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

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

### Recommended Useful Reagents

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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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](https://bio-rad-antibodies.com/datasheets)

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