

## Datasheet: AHP1010

<b>Description:</b>	RABBIT ANTI HUMAN CD193
<b>Specificity:</b>	CD193
<b>Other names:</b>	CCR3
<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 (1)	▪			10ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1ug/ml
Immunofluorescence	▪			

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.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Rat, Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to human CD193 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml

<b>Immunogen</b>	Synthetic peptide corresponding to a 14 amino acid sequence located near human CD193 carboxy-terminus.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P51677</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1232</a>   CCR3   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CMKBR3
<b>Specificity</b>	<p><b>Rabbit anti Human CD193 antibody</b> recognizes human CD193, otherwise known as CC chemokine receptor 3 (CCR3), a seven-helix transmembrane G-protein coupled receptor which, along with CCR5 and CXCR4, acts as a principal receptor for the fusion and entry of HIV into target cells. CD193 is expressed by eosinophils, basophils, mast cells, microglia, Th<sub>2</sub> helper cells and some epithelial cells.</p> <p>CD193 acts as a receptor for several CC chemokines including monocyte chemoattractant proteins (MCP) -1, -2, -3 and -4, MIP-1a, MIP-1β, and RANTES. The eotaxin subgroup of CC chemokines act as specific agonists for CD193, and this interaction has become a focus area for studies into the infection of microglia by HIV (<a href="#">He, J. et al. 1997</a>) and allergy research (<a href="#">Holse, M. et al. 2006</a>).</p> <p>Rabbit anti Human CD193 antibody has been used successfully for the detection of human CD193 by immunohistochemistry on formalin fixed, paraffin embedded intervertebral disc tissue (<a href="#">Gruber et al. 2014</a>).</p>
<b>Histology Positive Control Tissue</b>	Human spleen.
<b>Western Blotting</b>	AHP1010 detects a band of approximately 55kDa in human spleen cell lysates (predicted Mwt. 41kDa)
<b>References</b>	<ol style="list-style-type: none"> <li>1. Wainwright, D.A. <i>et al.</i> (2009) Exacerbation of facial motoneuron loss after facial nerve axotomy in CCR3-deficient mice. <a href="#">ASN Neuro. 1 (5): e00024.</a></li> <li>2. Kallankari, H. <i>et al.</i> (2010) Chemokine CCL18 predicts intraventricular hemorrhage in very preterm infants. <a href="#">Ann Med. 42: 416-25.</a></li> <li>3. Gruber, H.E. <i>et al.</i> (2014) Production and expression of RANTES (CCL5) by human disc cells and modulation by IL-1-β and TNF-α in 3D culture. <a href="#">Exp Mol Pathol. 96: 133-8.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Holse, M. <i>et al.</i> (2006) CCR3, CCR5, CCR8 and CXCR3 expression in memory T helper cells from allergic rhinitis patients, asymptotically sensitized and healthy individuals. <a href="#">Clin Mol Allergy. 4: 6.</a></li> <li>2. Combadiere, C. <i>et al.</i> (1996) Cloning and functional expression of a human eosinophil CC chemokine receptor. <a href="#">J Biol Chem. 271 (18): 11034.</a></li> <li>3. He, J. <i>et al.</i> (1997) CCR3 and CCR5 are co-receptors for HIV-1 infection of microglia. <a href="#">Nature. 385 (6617): 645-9.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before</p>

use.

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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	<a href="#">FITC</a>
Sheep Anti Rabbit IgG (STAR35...)	<a href="#">RPE</a>
Goat Anti Rabbit IgG (H/L) (STAR124...)	<a href="#">HRP</a>
Goat Anti Rabbit IgG (Fc) (STAR121...)	<a href="#">Biotin</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Sheep Anti Rabbit IgG (2AB02...)	<a href="#">Biotin</a>
Sheep Anti Rabbit IgG (STAR36...)	<a href="#">DyLight®488</a> , <a href="#">DyLight®549</a> , <a href="#">DyLight®649</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a>

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)  
[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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