

## Datasheet: AHP1010

**BATCH NUMBER 151090**

<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.**

### 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.

<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 1 mg/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>RRID</b>	AB_2074377
<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)

**References**

1. Wainwright, D.A. *et al.* (2009) Exacerbation of facial motoneuron loss after facial nerve axotomy in CCR3-deficient mice. [ASN Neuro. 1 \(5\): e00024.](#)
2. Kallankari, H. *et al.* (2010) Chemokine CCL18 predicts intraventricular hemorrhage in very preterm infants. [Ann Med. 42: 416-25.](#)
3. Gruber, H.E. *et al.* (2014) Production and expression of RANTES (CCL5) by human disc cells and modulation by IL-1- $\beta$  and TNF- $\alpha$  in 3D culture. [Exp Mol Pathol. 96: 133-8.](#)

**Further Reading**

1. Holse, M. *et al.* (2006) CCR3, CCR5, CCR8 and CXCR3 expression in memory T helper cells from allergic rhinitis patients, asymptotically sensitized and healthy individuals. [Clin Mol Allergy. 4: 6.](#)
2. Combadiere, C. *et al.* (1996) Cloning and functional expression of a human eosinophil CC chemokine receptor. [J Biol Chem. 271 \(18\): 11034.](#)
3. He, J. *et al.* (1997) CCR3 and CCR5 are co-receptors for HIV-1 infection of microglia. [Nature. 385 \(6617\): 645-9.](#)

**Storage**

Store at +4°C or at -20°C if preferred.  
 Storage in frost-free freezers is not recommended.  
 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 use.

**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/AHP1010>  
10040

**Regulatory** For research purposes only

## 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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[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](https://www.bio-rad-antibodies.com/datasheets)  
 'M363768:200529'

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