

Datasheet: AHP1010

Description:	RABBIT ANTI HUMAN CD193
Specificity:	CD193
Other names:	CCR3
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 (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	<p>Reacts with: Rat, Mouse</p> <p>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.</p>
Product Form	Purified IgG - liquid

Antiserum Preparation Antisera to human CD193 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.02% Sodium Azide (NaN₃)

Approx. Protein Concentrations IgG concentration 1 mg/ml

Immunogen Synthetic peptide corresponding to a 14 amino acid sequence located near human CD193 carboxy-terminus.

External Database Links

UniProt:
[P51677](#) [Related reagents](#)

Entrez Gene:
[1232](#) CCR3 [Related reagents](#)

Synonyms CMKBR3

RRID AB_2074377

Specificity **Rabbit anti Human CD193 antibody** 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, Th₂ helper cells and some epithelial cells.

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 involved in infection of microglia by HIV ([He *et al.* 1997](#)) and allergic reactions ([Holse *et al.* 2006](#)).

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 ([Gruber *et al.* 2014](#)).

Histology Positive Control Tissue Human spleen.

Western Blotting 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. Mäkikallio, K. *et al.* (2012) Umbilical artery chemokine CCL16 is associated with preterm preeclampsia and fetal growth restriction. [Cytokine. 60 \(2\): 377-84.](#)

4. Gruber, H.E. *et al.* (2014) Production and expression of RANTES (CCL5) by human disc cells and modulation by IL-1- β and TNF- α in 3D culture. [Exp Mol Pathol. 96: 133-8.](#)

Further Reading	<p>1. Combadiere, C. <i>et al.</i> (1996) Cloning and functional expression of a human eosinophil CC chemokine receptor. J Biol Chem. 271 (18): 11034.</p> <p>2. He, J. <i>et al.</i> (1997) CCR3 and CCR5 are co-receptors for HIV-1 infection of microglia. Nature. 385 (6617): 645-9.</p> <p>3. 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. Clin Mol Allergy. 4: 6.</p>
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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.
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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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1010 10040
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Regulatory	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

[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)
'M381668:210512'

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