

## Datasheet: AHP453B

<b>Description:</b>	RABBIT ANTI HUMAN FRACTALKINE:Biotin
<b>Specificity:</b>	FRACTALKINE
<b>Other names:</b>	CX3CL1
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## 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	▪			0.15 - 0.30ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to Biotin - lyophilised
<b>Reconstitution</b>	Reconstitute with 1.0ml sterile PBS containing 0.1% Bovine Serum Albumin.

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

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 50ug/ml
<b>Immunogen</b>	Recombinant human fractalkine

**External Database  
Links**

**UniProt:**

[P78423](#)   [Related reagents](#)

**Entrez Gene:**

[6376](#)   CX3CL1   [Related reagents](#)

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**Synonyms**

FKN, NTT, SCYD1

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**Specificity**

**Rabbit anti Human Fractalkine antibody** recognizes human fractalkine, otherwise known as CX3CL1, a 397 amino acid CX3C chemokine which signals through the CX3CR1 receptor and is expressed by various tissues including the brain, testis, lung, heart, kidney, colon and skeletal muscle.

Adhesion of fractalkine to the CX3CR1 receptor triggers the chemotaxis and adhesion of leucocytes, including T cells, monocytes and NK cells and studies have suggested that fractalkine is involved in the regulation of brain microglia during neuroinflammatory processes ([Sunnemark et al. 2005](#)). CX3CL1 may also play a role in dendritic cell mediated host defense against invading pathogens such as *Legionella pneumophila* ([Kikuchi et al. 2005](#)).

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**Further Reading**

1. Sunnemark, D. *et al.* (2005) CX3CL1 (fractalkine) and CX3CR1 expression in myelin oligodendrocyte glycoprotein-induced experimental autoimmune encephalomyelitis: kinetics and cellular origin. [J Neuroinflammation. 2: 17.](#)
2. Kikuchi, T. *et al.* (2005) Involvement of fractalkine/CX3CL1 expression by dendritic cells in the enhancement of host immunity against *Legionella pneumophila*. [Infect Immun. 73 \(9\): 5350-7.](#)

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**Storage**

Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.

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. For long term storage, the addition of 0.09% sodium azide is recommended.

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**Shelf Life**

12 months from date of reconstitution.

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**Health And Safety  
Information**

Material Safety Datasheet documentation available at:  
Material Safety Datasheet Documentation #10162 available at:  
<https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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**Regulatory**

For research purposes only

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