

Datasheet: AHP1173

Description:	RABBIT ANTI HUMAN INTERLEUKIN-23 (C-TERMINAL)
Specificity:	IL-23 (C-TERMINAL)
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	■			10ug/ml
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			1 - 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.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human IL-23 (CT) 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 (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A 14 amino acid peptide from near the carboxy-terminus of human IL-23.

**External Database
Links**

UniProt:

[Q9NPF7](#)

[Related reagents](#)

Entrez Gene:

[51561](#)

IL23A

[Related reagents](#)

Synonyms

SGRF

Specificity

Rabbit anti Human IL-23 antibody recognizes the C-terminal (CT) domain of human interleukin-23 (IL-23), a ~21 kDa heterodimeric cytokine structurally related to IL-12. IL-23 is composed of a p19 subunit encoded by the IL23A gene, and a p40 subunit of interleukin-12 (IL12B). IL-23 is expressed mainly by activated macrophages and dendritic cells, and plays an important role in bridging innate and adaptive responses.

IL-23 activates a subset of T cells called Th17 cells, which are characterised by the production of interleukin-17. The IL-23/IL-17 pathway is essential for the induction and maintenance of brain and joint inflammatory autoimmune diseases, including Guillain Barre Syndrome, Multiple sclerosis and rheumatoid arthritis.

**Histology Positive
Control Tissue**

Raji cells.

Western Blotting

AHP1173 detects a band of approximately 24kDa in Raji cell lysates

Further Reading

1. Kikly, K. *et al.* (2006) The IL-23/Th(17) axis: therapeutic targets for autoimmune inflammation. [Curr. Opin. Immunol. 18: 670-675.](#)
2. Hu, W. *et al.* (2006) Interleukin 23 in acute inflammatory demyelination of the peripheral nerve. [Arch Neurol. 63: 858-864.](#)
3. Langrish, C.L. *et al.* (2004) IL-12 and IL-23: master regulators of innate and adaptive immunity. [Immunol. Rev. 202: 96-105.](#)
4. Hunter, C.A. (2005) New IL-12-family members: IL-23 and IL-27, cytokines with divergent functions. [Nat. Rev. Immunol. 5: 521-531.](#)

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

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

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