

Datasheet: AHP998

BATCH NUMBER 147074

Description:	RABBIT ANTI HUMAN Mcl-1
Specificity:	Mcl-1
Other names:	MYELOID CELL LEUKAEMIA SEQUENCE 1
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			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/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
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human MCL-1 (IN) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by ion exchange chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein	IgG concentration 1.0mg/ml

Concentrations

Immunogen A 16 amino acid peptide located near the centre of human MCL-1.

External Database Links

UniProt:

[Q07820](#) [Related reagents](#)

Entrez Gene:

[4170](#) MCL1 [Related reagents](#)

Synonyms BCL2L3

RRID AB_2144116

Specificity

Rabbit anti Human Mcl-1 antibody recognizes an epitope within the central region (IN) of human Myeloid cell leukaemia sequence 1 (MCL-1), an anti-apoptotic member of the Bcl-2 family of proteins, first identified in differentiating ML-1 myeloid cells, and expressed in many different cell lines, tissues and a variety of tumours.

The MCL-1 protein, localised to intracellular membranes and particularly mitochondrial membranes, has since been isolated in two distinct isoforms, known as MCL-1 long (MCL-1L) and MCL-1 short (MCL-1S). MCL-1S has been identified as a pro-apoptotic splice variant of MCL-1L, missing the transmembrane and BH1 and BH2 (Bcl-2 homology) domains. Interaction between these two antagonistic variants can act to regulate cell survival.

Rabbit anti Human Mcl-1 antibody (**AHP998**) recognizes both the MCL-1L (~38 kDa) and MCL-1S (~30 kDa) isoforms of MCL-1.

Western Blotting AHP998 detects a band of approximately 30kDa and 38kDa in Human Raji cell lysates.

Further Reading

1. Kozopas, K.M. *et al.* (1993) MCL1, a gene expressed in programmed myeloid cell differentiation, has sequence similarity to BCL2. [Proc Natl Acad Sci U S A. 90 \(8\): 3516-20.](#)
 2. Bae, J. *et al.* (2000) MCL-1S, a splicing variant of the antiapoptotic BCL-2 family member MCL-1, encodes a proapoptotic protein possessing only the BH3 domain. [J Biol Chem. 275 \(33\): 25255-61.](#)
 3. Rinkenberger, J.L. *et al.* (2000) Mcl-1 deficiency results in peri-implantation embryonic lethality. [Genes Dev. 14 \(1\): 23-7.](#)
 4. Michels, J. *et al.* (2005) Mcl-1. [Int J Biochem Cell Biol. 37 \(2\): 267-71.](#)
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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/AHP998>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

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

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

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

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