

Datasheet: AHP998

**BATCH NUMBER 163249**

<b>Description:</b>	RABBIT ANTI HUMAN Mcl-1
<b>Specificity:</b>	Mcl-1
<b>Other names:</b>	MYELOID CELL LEUKAEMIA SEQUENCE 1
<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			▪	
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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to human MCL-1 (IN) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by ion exchange chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide
<b>Approx. Protein</b>	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.](#)
- 

## 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.

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

---

**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 (H/L) (STAR124...) [HRP](#)

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

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

### Recommended Useful Reagents

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)

'M383002:210513'

**Printed on 19 Jan 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)