

PRODUCT ANALYSIS SHEET

Catalog Number:	AHO0102
Lot Number:	See product label
Quantity/Volume:	200 µg/0.5 mL
Clone Number:	RC13
Isotype:	IgG1κ (mouse)
Form of Antibody:	Purified immunoglobulin in 10 mM phosphate buffered saline, pH 7.4, with 0.2% bovine serum albumin.
Preservation:	0.09% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification:	Purified from ascites by Protein G chromatography.
Immunogen:	Recombinant human Mcl-1 protein corresponding to amino acids 1-327.
Specificity:	This mAb recognizes a protein of 42 kDa which is identified as Mcl-1 (Myeloid cell leukemia-1), a protein expressed in ML-1 cells during phorbol ester-induced differentiation along the monocyte/macrophage pathway. Mcl-1 is a member of the Bcl-2 family. The carboxy terminal of Mcl-1 and Bcl-2 share significant sequence homology. Expression of Mcl-1 is increased upon exposure of ML-1 cells to various types of DNA damaging agents (e.g. ionizing radiation, ultraviolet radiation and alkylating drugs). Increased levels of GADD45 and Bax also occur along with a decrease in Bcl-2. Enhanced expression of Mcl-1, predominantly associated with mitochondria, complements the continued expression of Bcl-2 in ML-1 cells undergoing differentiation. As with Bcl-2, Mcl-1 has the capacity to promote cell survival under conditions that otherwise cause apoptosis.
Species Reactivity:	Human. Other species were not tested.
Applications:	This antibody is suitable for use in Western blotting and immunoprecipitation.
Suggested Working Dilutions:	For immunoprecipitation, use 10 µL/mg of cell lysate, and for Western blotting, use 1:200-1:400 dilution. The optimal antibody concentration should be determined for each specific application.
Recommended Positive Control:	Raji cells for Western.
Storage:	Store at 2-8°C. For long term storage, aliquot into small volumes and store at -20°C. Avoid repeated freeze-thaw cycles to avoid denaturing the antibody.

Expiration Date:

Expires one year from date of receipt when stored as instructed.

References:








Kaufmann S.H., *et al.* (1998) Elevated expression of the apoptotic regulator, Mcl-1, at the time of leukemic relapse. *Blood* 91: 991-1000.

Krajewski S., *et al.* (1995) Immunohistochemical analysis of Mcl-1 protein in human tissues. Differential regulation of Mcl-1 and Bcl-2 protein production suggests a unique role for Mcl-1 in control of programmed cell death in vivo. *Am. J. Pathol.* 146:1309-1319.

Reynolds J.E., *et al.* (1994) Mcl-1, a member of the Bcl-2 family, delays apoptosis induced by c-myc overexpression in Chinese hamster ovary cells. *Cancer Res.* 54(24): 6348-6352.

Zhou P., *et al.* (1997) Mcl-1, a Bcl-2 family member, delays the death of hematopoietic cells under a variety of apoptosis-inducing conditions. *Blood* 89:630-643.

Explanation of symbols

Symbol	Description	Symbol	Description
	Manufacturer		Catalog number
	Use by		Temperature limitation
	Consult instructions for use		Caution, consult accompanying documents
	Batch code		

PIAH00102

MAN0003747 Rev 2.00 Effective Date: 20 MAY 2013

For Research Use Only. Not for use in diagnostic procedures.

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288 www.lifetechnologies.com

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