

**MCL-1 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1027a****Specification**

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**MCL-1 Antibody - Product Information**

Application	<b>WB, IHC, IF</b>
Primary Accession	<a href="#">Q07820</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>37kDa KDa</b>

**Description**

Mcl-1 (Myeloid cell leukemia-1) is Bcl-2-related and was identified as an early-induction gene that increased in expression during the differentiation of human myeloblastic leukemia cell ML-1, or exposure to different DNA damaging agents. The level of Mcl-1 is decreased in peripheral B lymphocytes undergoing apoptosis following treatment with apoptotic stimuli such as TGF-alpha 1 and forskolin. Expression of Mcl-1 is able to delay apoptosis induced by over-expression of c-myc in CHO 5AHSmyc cells. In hematopoietic FDC-P1 cells, Mcl-1 interacts with another Bcl-2-related protein, Bax, and prolongs cell viability after treatment with different apoptotic reagents. This monoclonal antibody detected a 37kd MCL1 in BCBL-1 cell lysate.

**Immunogen**

Purified recombinant fragment of human MCL-1 expressed in E. Coli. <br />

**Formulation**

Purified antibody in PBS containing 0.03% sodium azide.

**MCL-1 Antibody - Additional Information**

**Gene ID** 4170

**Other Names**

Induced myeloid leukemia cell differentiation protein Mcl-1, Bcl-2-like protein 3, Bcl2-L-3, Bcl-2-related protein EAT/mcl1, mcl1/EAT, MCL1, BCL2L3

**Dilution**

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

IF~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MCL-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## MCL-1 Antibody - Protein Information

**Name** MCL1

**Synonyms** BCL2L3

### Function

Involved in the regulation of apoptosis versus cell survival, and in the maintenance of viability but not of proliferation. Mediates its effects by interactions with a number of other regulators of apoptosis. Isoform 1 inhibits apoptosis. Isoform 2 promotes apoptosis.

### Cellular Location

Membrane; Single-pass membrane protein. Cytoplasm. Mitochondrion. Nucleus, nucleoplasm  
Note=Cytoplasmic, associated with mitochondria

## MCL-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## MCL-1 Antibody - Images

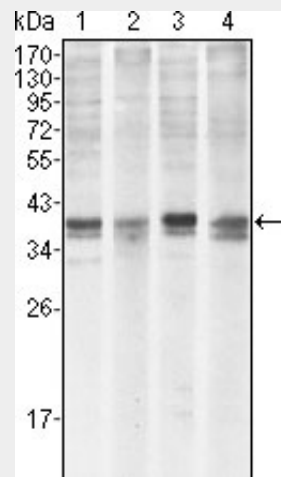


Figure 1: Western blot analysis using MCL1 mouse mAb against HeLa (1), BCBL-1 (2), Jurkat (3) and HL60 (4) cell lysate.

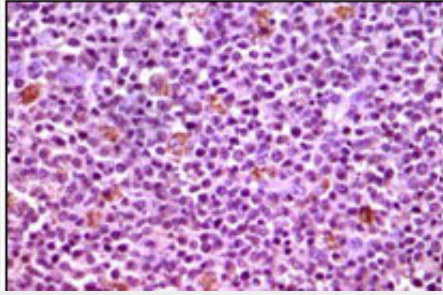


Figure 2: Immunohistochemical analysis of paraffin-embedded human lymphnode tissues using MCL1 mouse mAb with DAB staining.

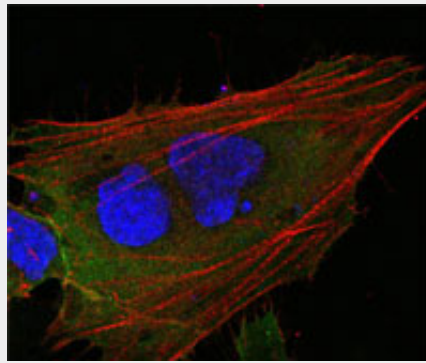


Figure 3: Confocal immunofluorescence analysis of HepG2 cells using MCL1 mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

#### **MCL-1 Antibody - References**

1. Ota, N. et al. J. Hum. Genet. 2000. 46: 254-269.
2. Schwertfeger KL, Ryder JW, Anderson SM J Mammary Gland Biol Neoplasia 2000, 3 : 236-251.