

# MCL1 Polyclonal antibody

Catalog Number: 16225-1-AP

Featured Product

116 Publications

## Basic Information

## Catalog Number:

16225-1-AP

## Size:

150ul, Concentration: 600 µg/ml by Nanodrop;

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG10397

## GenBank Accession Number:

BC107735

## GeneID (NCBI):

4170

## Full Name:

myeloid cell leukemia sequence 1 (BCL2-related)

## Calculated MW:

350 aa, 37 kDa

## Observed MW:

35-40 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:50-1:500

## Applications

## Tested Applications:

FC, IF, IP, WB, ELISA

## Cited Applications:

IF, IHC, IP, WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human, rat, mouse

## Positive Controls:

**WB:** Jurkat cells, mouse spleen tissue, Raji cells, HL-60 cells, A431 cells, human liver tissue, HEK-293T cells, human brain tissue, K-562 cells, MCF-7 cells, HeLa cells

**IP:** Raji cells,

**IF:** MCF-7 cells,

## Background Information

MCL-1 is an anti-apoptotic member of the Bcl-2 family originally isolated from the ML-1 human myeloid leukemia cell line. Similar to BCL2 and BCL2L1, MCL1 can interact with BAX and/or BAK1 to inhibit mitochondria-mediated apoptosis. Mcl-1 is critical for the proliferation and survival of myeloma cells in vitro, and overexpression of Mcl-1 protein in myeloma cells is associated with relapse and short event-free survival in multiple myeloma patients. Recent studies show that MCL-1 is upregulated in numerous haematological and solid tumour malignancies. Therefore, MCL-1 has been suggested as a potential new therapeutic target. MCL-1 can be alternatively spliced into a long form (MCL-1L, 40 kDa) or a short form (MCL-1S, 30 kDa). (PMID: 15467463, PMID: 15147382)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yanhui Zhu	36183949	J Ethnopharmacol	IF
Liping Shan	33072561	Front Oncol	WB
Yang Gao	32932732	Int J Mol Sci	IHC

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

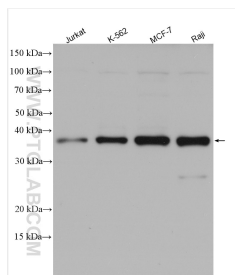
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

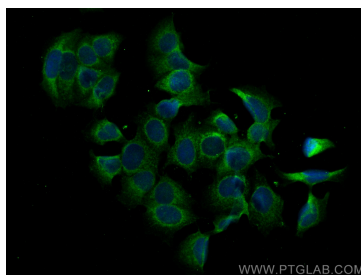
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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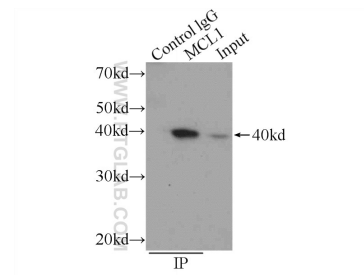
## Selected Validation Data



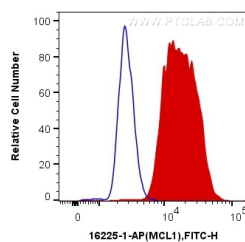
Various lysates were subjected to SDS PAGE followed by western blot with 16225-1-AP (MCL1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using MCL1 antibody (16225-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-MCL1 (IP:16225-1-AP, 3ug; Detection:16225-1-AP 1:1000) with Raji cells lysate 800ug.



1X10<sup>6</sup> Ramos cells were intracellularly stained with 0.5 ug Anti-Human MCL1 (16225-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).