

Anti-MCL1 Antibody
Catalog # ABO10821**Specification**

Anti-MCL1 Antibody - Product Information

Application	WB
Primary Accession	Q07820
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Induced myeloid leukemia cell differentiation protein Mcl-1(MCL1) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MCL1 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

Calculated MW

37337 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

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

Protein Name

Induced myeloid leukemia cell differentiation protein Mcl-1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human MCL1(303-325aa RDWLVKQRGWDFVEFFHVEDLE), different from the related mouse sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the Bcl-2 family.

Anti-MCL1 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

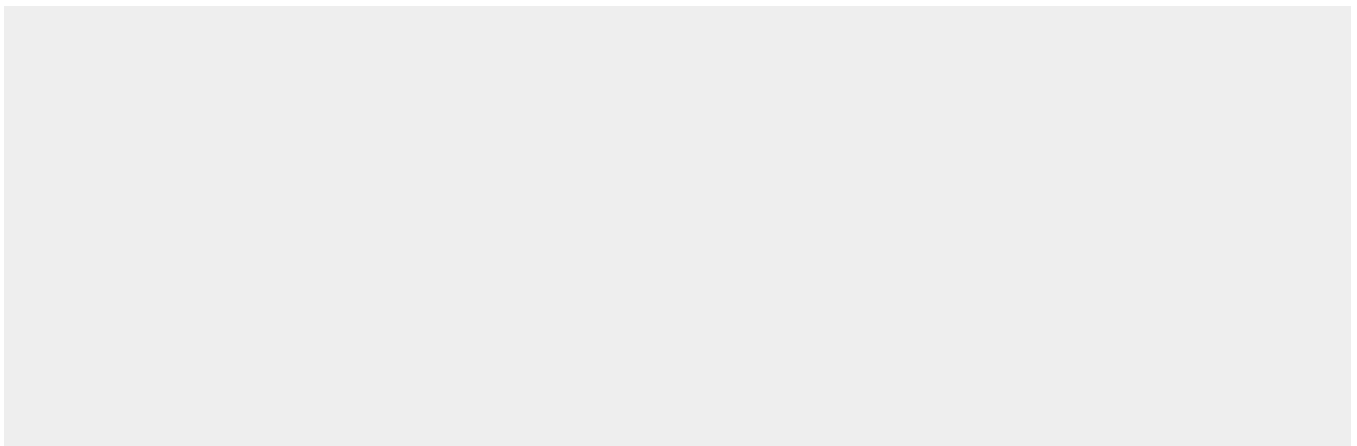
Membrane; Single-pass membrane protein. Cytoplasm. Mitochondrion. Nucleus, nucleoplasm
Note=Cytoplasmic, associated with mitochondria

Anti-MCL1 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](#)

Anti-MCL1 Antibody - Images





Anti-MCL1 antibody, ABO10821, Western blotting All lanes: Anti MCL1 (ABO10821) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 37KD Observed bind size: 37KD

Anti-MCL1 Antibody - Background

BCL2L3, also known as MCL1 (myeloid cell leukemia sequence 1) encodes an anti-apoptotic protein, which is a member of the Bcl-2 family. Alternative splicing results in multiple transcript variants. The longest gene product (isoform 1) enhances cell survival by inhibiting apoptosis while the alternatively spliced shorter gene products (isoform 2 and isoform 3) promote apoptosis and are death-inducing. Using the methods of somatic cell hybrid analysis and fluorescence in situ hybridization, the MCL1 gene is mapped to human 1q21. MCL1 is a critical and specific regulator essential for ensuring the homeostasis of early hematopoietic progenitors. Phosphorylation of MCL1 directs its interaction with the tumor suppressor protein FBW7, which is the substrate-binding component of a ubiquitin ligase complex. The polyubiquitylation of MCL1 then targets it for proteasomal degradation. The degradation of MCL1 was blocked in patient-derived tumor cells that lacked FBW7 or had loss-of-function mutations in FBW7, conferring resistance to antitubulin agents and promoting chemotherapeutic-induced polyploidy.