

Mcl-1 Antibody

Catalog # ASC10307

Product Information

Application WB, ICC, E **Primary Accession** 007820

Other Accession <u>NP_068779</u>, <u>11386165</u>

Reactivity
Human
Rabbit
Clonality
Polyclonal
Isotype
IgG
Calculated MW
37337
Concentration (mg/ml)
Conjugate
Human
Rabbit
Rabbit
Polyclonal
IgG
Unconjugate

Application Notes Mcl-1 antibody can be used for detection of isoforms Mcl-1L and Mcl-1S by

Western blot at 0.5 to 2 \(\textstyle g/mL. \) Antibody can also be used for

immunocytochemistry starting at 10 [g/mL.

Additional Information

Gene ID 4170

Other Names Mcl-1 Antibody: TM, EAT, MCL1L, MCL1S, Mcl-1, BCL2L3, MCL1-ES, bcl2-L-3,

mcl1/EAT, Induced myeloid leukemia cell differentiation protein Mcl-1, Bcl-2-like protein 3, Bcl2-L-3, myeloid cell leukemia sequence 1 (BCL2-related)

Target/Specificity MCL1; Detects isoforms Mcl-1L and Mcl-1S

Reconstitution & Storage Mcl-1 antibody can be stored at 4°C for three months and -20°C, stable for up

to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high

temperatures.

Precautions Mcl-1 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

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.

Background

Mcl-1 Antibody: Myeloid cell leukimia-1 (Mcl-1) is a member of the Bcl-2 family of proteins that can act to promote cell survival. While the mechanism by which Mcl-1 inhibits apoptosis is not known, it is thought that it may heterodimerize and neutralize pro-apoptotic members of the Bcl-2 family such as Bim or Bak. Mcl-1 was originally identified in differentiating myeloid cells, but has since been shown to be expressed in multiple cell types. Mcl-1 is essential for embryogenesis and for the development and maintenance of B and T lymphocytes in animals. Mcl-1 exists as at least three distinct isoforms designated Mcl-1L, Mcl-1S and Mcl-1ES. In marked contrast to the larger isoform of Mcl-1, overexpression of Mcl-1S promotes cell death.

References

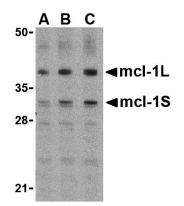
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Cuconati A, Mukherjee C, Perez D, et al. DNA damage response and MCL-1 destruction initiate apoptosis in adenovirus-infected cells. Genes and Dev. 2003; 17:2922-32.

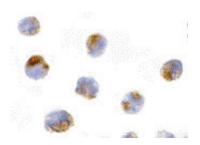
Opferman JT, Letai A, Beard C, et al. Development and maintenance of B and T lymphocytes require antiapoptotic MCL-1. Nature 2003; 426:671-6.

Kozopas KM, Yang T, Buchan HL, et al. MCL1, a gene expressed in programmed myeloid cell differentiation, has sequence similarity to BCL2. Proc. Natl. Acad. Sci. USA 1993; 90:3516-20.

Images



Western blot analysis of Mcl-1 in Raji cell lysates with Mcl-1 antibody (IN) at (A) 0.5, (B) 1, and (C) 2 μ g/mL.



Immunocytochemistry of Mcl-1 in Raji cells with Mcl-1 antibody at 10 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.