Product Name: Mcl-1 (phospho Ser159) Rabbit Polyclonal Antibody
Catalog #: APRab04980

Summary

Production Name	Mcl-1 (phospho Ser159) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	ELISA,IF,WB
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MCL1
Alternative Names	MCL1; BCL2L3; Induced myeloid leukemia cell differentiation protein Mcl-1; Bcl-2-like protein 3; Bcl2-L-3; Bcl-2-related protein EAT/mcl1; mcl1/EAT
Gene ID	4170.0
SwissProt ID	Q07820.The antiserum was produced against synthesized peptide derived from human MCL1 around the phosphorylation site of Ser159. AA range:125-174

Application

Dilution Ratio	WB 1:500-2000;IF 1:200 - 1:1000. ELISA 2000-20000
Molecular Weight	About 40kd in human,39kd in mouse and rat

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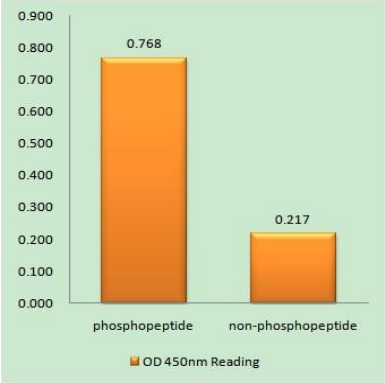
Background

This gene 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. [provided by RefSeq, Oct 2010],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 while isoform 2 promotes it.,induction:Expression increases early during phorbol-ester induced differentiation along the monocyte/macrophage pathway in myeloid leukemia cell lines ML-1. Rapidly up-regulated by CSF2 in ML-1 cells. Up-regulated by heat-shock induced differentiation. Expression increases early during retinoic acid-induced differentiation.,PTM:Cleaved by CASP3 during apoptosis. In intact cells cleavage occurs preferentially after Asp-127, yielding a pro-apoptotic 28 kDa C-terminal fragment.,PTM:Phosphorylated on Thr-163. Treatment with taxol or okadaic acid induces phosphorylation on additional sites.,PTM:Rapidly degraded in the absence of phosphorylation on Thr-163 in the PEST region.,similarity:Belongs to the Bcl-2 family.,subcellular location:Cytoplasmic, associated with mitochondria.,subunit:Interacts with BAD, BOK, BIK and BFM (By similarity). Interacts with PMAIP1. Isoform 1 interacts with BAX, BAK1, TPT1 and BCL2L11. Heterodimer of isoform 1 and isoform 2. Homodimers of isoform 1 or isoform 2 are not detected. Isoform 2 does not interact with pro-apoptototic BCL2-related proteins.,

Research Area

Image Data



Enzyme-Linked Immunosorbent Assay （Phospho-ELISA） for Immunogen Phosphopeptide （Phospho-left） and Non-Phosphopeptide （Phospho-right）, using MCL1 （Phospho-Ser159） Antibody

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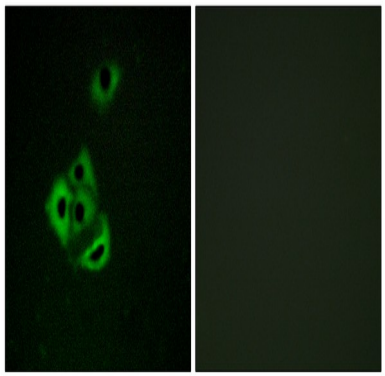
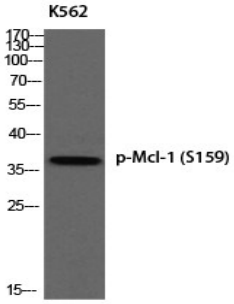


Immunofluorescence analysis of A549 cells, using MCL1 (Phospho-Ser159) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of K562 using p-Mcl-1 (S159) antibody.

Note

For research use only.