

Mcl-1 Monoclonal Antibody

Catalog No :	YM0430
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	Mcl-1
Fields :	>>PI3K-Akt signaling pathway;>>Apoptosis;>>JAK-STAT signaling pathway;>>MicroRNAs in cancer
Gene Name :	MCL1
Protein Name :	Induced myeloid leukemia cell differentiation protein Mcl-1
Human Gene Id :	4170
Human Swiss Prot No :	Q07820
Mouse Swiss Prot No :	P97287
Immunogen :	Purified recombinant fragment of human MCL-1 expressed in E. Coli.
Specificity :	Mcl-1 Monoclonal Antibody detects endogenous levels of Mcl-1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : About 40kd in human,39kd in mouse and rat

P 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.

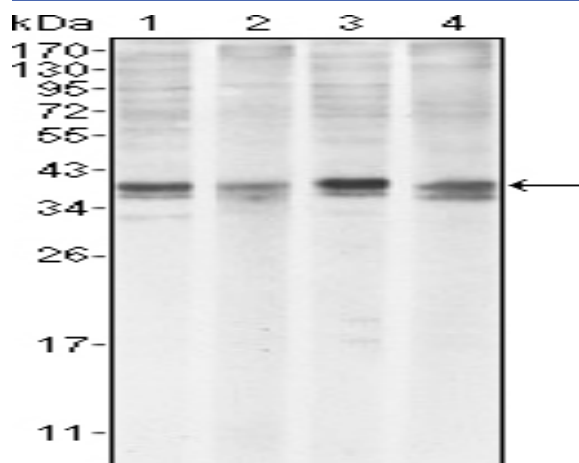
Background : This gene encodes an anti-apoptotic protein, which is a member of the Bcl-2 family. Alternative splicing results in multiple transcript variants. The longest gene product (isoform 1) enhances cell survival by inhibiting apoptosis while the alternatively spliced shorter gene products (isoform 2 and isoform 3) promote apoptosis and are death-inducing. [provided by RefSeq, Oct 2010],

Function : 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 abs

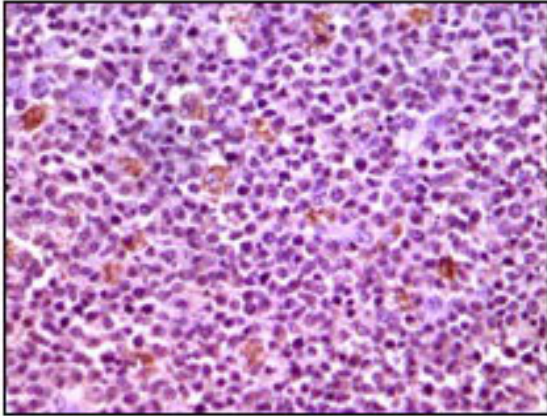
Subcellular Location : Membrane ; Single-pass membrane protein . Cytoplasm. Mitochondrion. Nucleus, nucleoplasm. Cytoplasmic, associated with mitochondria.

Expression : Ewing sarcoma,Mammary gland,Myeloid leukemia cell,Neuroblastoma,Placenta,Th

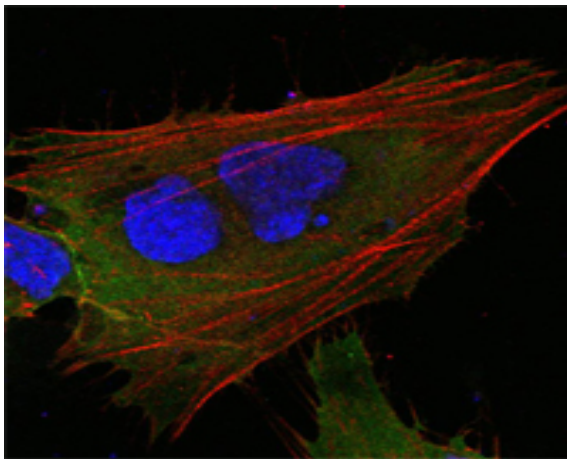
Products Images



Western Blot analysis using Mcl-1 Monoclonal Antibody against HeLa (1), BCBL-1 (2), Jurkat (3) and HL60 (4) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human lymphnode tissues with DAB staining using Mcl-1 Monoclonal Antibody.



Confocal immunofluorescence analysis of HepG2 cells using Mcl-1 Monoclonal Antibody (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.