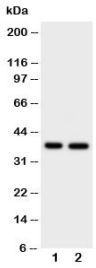
MCL-1 Antibody (R30576)

Catalog No.	Formulation	Size
R30576	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q07820
Applications	Western blot: 0.5-1ug/ml
Limitations	This MCL-1 antibody is available for research use only.



Western blot testing of MCL-1 antibody and Lane 1: HeLa; 2: MCF-7 cell lysate. Predicted molecular weight ~37kDa.

Description

BCL2L3, also known as 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 MCL-1 gene is mapped to human 1q21. MCL-1is a critical and specific regulator essential for ensuring the homeostasis of early hematopoietic progenitors. Phosphorylation of MCL-1 directs its interaction with the tumor suppressor protein FBW7, which is the substrate-binding component of a ubiquitin ligase complex. The polyubiquitylation

of MCL-1 then targets it for proteasomal degradation. Degradation 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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MCL-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 303-325 (RDWLVKQRGWDGFVEFFHVEDLE-human) were used as the immunogen for this MCL-1 antibody.

Storage

After reconstitution, the MCL-1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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