

Anti-MCL1 Picoband Antibody

Catalog # ABO11833

Product Information

Application	WB, IHC-P
Primary Accession	Q07820
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Induced myeloid leukemia cell differentiation protein Mcl-1(MCL1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Membrane ; Single-pass membrane protein . Cytoplasm. Mitochondrion. Nucleus, nucleoplasm. Cytoplasmic, associated with mitochondria.
Source	Eukaryota
Protein Name	Induced myeloid leukemia cell differentiation protein Mcl-1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human MCL1 recombinant protein (Position: M1-R350). Human MCL1 shares 82% and 78% amino acid (aa) sequences identity with mouse and rat MCL1, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also

Sequence Similarities

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Belongs to the Bcl-2 family.

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

Background

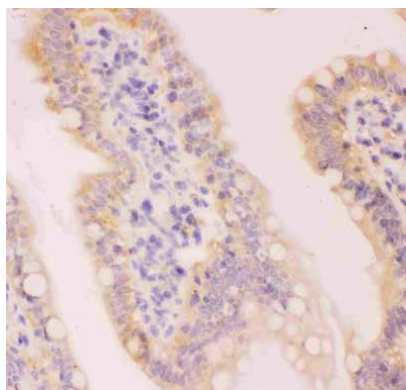
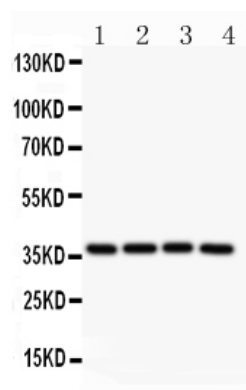
MCL1, also known as myeloid cell leukemia 1, is a protein that in humans is encoded the MCL1 gene. It is mapped to 1q21.3. MCL1 is a potent multidomain antiapoptotic protein of the BCL2 family that heterodimerizes with other BCL2 family members to protect against apoptotic cell death. MCL1 as an attractive candidate for regulation of hematopoietic stem cell homeostasis that is highly expressed in hematopoietic stem cells and regulated by growth factor signals. MCL1 is a critical and specific regulator essential for ensuring the homeostasis of early hematopoietic progenitors. During mitotic arrest, MCL1 protein levels decline markedly, through a posttranslational mechanism, potentiating cell death. Phosphorylation of MCL1 directs its interaction with the tumor suppressor protein FBW7, which is the substrate-binding component of a ubiquitin ligase complex.

Images

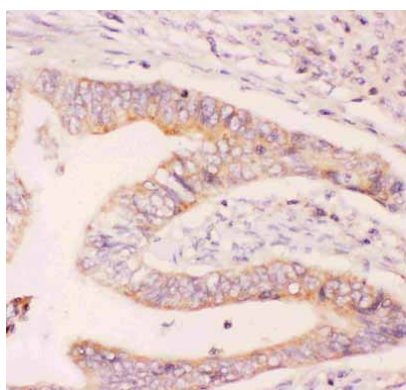


Anti-MCL1 Picoband antibody, ABO11833-1.jpgAll lanes:
Anti MCL1 (ABO11833) at 0.5ug/mlWB: Recombinant
Human MCL1 Protein 0.5ngPredicted bind size:
40KDObserved bind size: 40KD

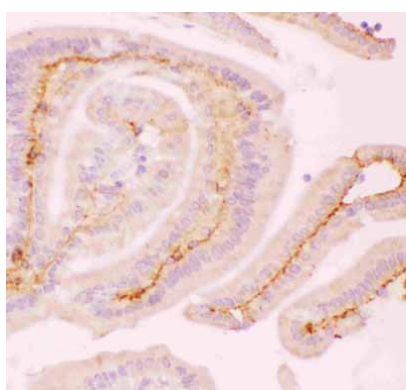
Anti-MCL1 Picoband antibody, ABO11833-2.jpgAll lanes:
Anti MCL1 (ABO11833) at 0.5ug/mlLane 1: Rat Spleen
Tissue Lysate at 50ugLane 2: HEPG2 Whole Cell Lysate at
40ugLane 3: MCF-7 Whole Cell Lysate at 40ugLane 4:
COLO320 Whole Cell Lysate at 40ugPredicted bind size:
37KD Observed bind size: 37KD



Anti-MCL1 Picoband antibody, ABO11833-3.JPGIHC(P): Rat Intestine Tissue



Anti-MCL1 Picoband antibody, ABO11833-4.JPGIHC(P): Human Intestinal Cancer Tissue



Anti-MCL1 Picoband antibody, ABO11833-5.JPGIHC(P): Mouse Intestine Tissue

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