

Rabbit MCL1 Polyclonal Antibody | anti-MCL1 antibody

Phospho-MCL1 (Ser64) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329471	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (82%), Dog (90%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MCL1; Polyclonal Antibody; Phospho-MCL1 (Ser64) Antibody; Bcl 2 related protein EAT/mcl1; Bcl-2-like protein 3; Bcl-2-related protein EAT/mcl1; BCL2 related; Bcl2-L-3; BCL2L3; EAT; Induced myeloid leukemia cell differentiation protein Mcl 1; Induced myeloid leukemia cell differentiation protein Mcl-1; MCL 1; MCL1-ES; mcl1/EAT; MCL1_HUMAN; MCL1L; MCL1S; MGC104264; MGC1839; Myeloid Cell Leukemia 1; Myeloid cell leukemia ES; Myeloid cell leukemia sequence 1; Myeloid cell leukemia sequence 1 BCL2 related; Myeloid cell leukemia sequence 1 isoform 1; OTTHUMP00000032794; OTTHUMP00000032795; TM; anti-MCL1 antibody

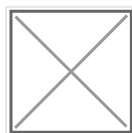
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (82%), Dog (90%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-MCL1 (Ser64) Antibody detects endogenous levels of MCL1 only when phosphorylated at Ser64.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MCL1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MCL1 around the phosphorylation site of Ser64.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Cleaved by CASP3 during apoptosis. In intact cells cleavage occurs preferentially after Asp-127, yielding a pro-apoptotic 28kDa C-terminal fragment. Rapidly degraded in the absence of phosphorylation on Thr-163 in the PEST region. Phosphorylated on Ser-159, by GSK3, in response to IL3/interleukin-3 withdrawal. Phosphorylation at Ser-159 induces ubiquitination and proteasomal degradation, abrogating the anti-apoptotic activity. Treatment with taxol or okadaic acid induces phosphorylation on additional sites. Ubiquitinated. Ubiquitination is induced by phosphorylation at Ser-159.
Subunit Structure	Interacts with HIF3A (via C-terminus domain) (By similarity). Interacts with BAD, BOK, BIK and BMF (By similarity). Interacts with PMAIP1. Interacts with BBC3 (By similarity). Isoform 1 interacts with BAX, BAK1 and TPT1. Heterodimer of isoform 1 and isoform 2. Homodimers of isoform 1 or isoform 2 are not detected. Isoform 2 does not interact with pro-apoptotic BCL2-related proteins. Interacts with RTL10/BOP. Interacts with BCL2L11; may sequester BCL2L11 to prevent its pro-apoptotic activity. Interacts with GIMAP5 and HSPA8/HSC70; the interaction between HSPA8 and MCL1 is impaired in the absence of GIMAP5 (By similarity).
Similarity	Belongs to the Bcl-2 family.
Subcellular Location	Membrane>Single-pass membrane protein. Cytoplasm. Mitochondrion. Nucleus>Nucleoplasm. Note: Cytoplasmic, associated with mitochondria.

Preparation and Storage

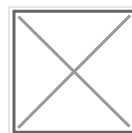
Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



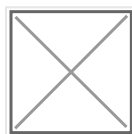
IHC (Immunohistochemistry)

At 1/100 staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



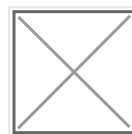
IHC (Immunohistochemistry)

At 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



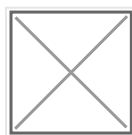
IHC (Immunohistochemistry)

At 1/100 staining Rat spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Rat ovarian tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from KARPAS-299, using Phospho-Mcl-1 (Ser64) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MCL1 antibody

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	309747067
NCBI GeneID	4170
NCBI Accession #	NP_001184249.1
NCBI GenBank Nucleotide #	NM_001197320.1
UniProt Accession #	Q07820; Q9HD91; Q9NRQ3; Q9NRQ4; Q9UHR7; Q9UHR8; Q9UHR9; Q9UNJ1; B2R6B2; D3DV03; D3DV04
Molecular Weight	37,337 Da
NCBI Official Full Name	induced myeloid leukemia cell differentiation protein Mcl-1 isoform 3
NCBI Official Synonym Full Names	myeloid cell leukemia sequence 1 (BCL2-related)
NCBI Official Symbol	MCL1
NCBI Official Synonym Symbols	TM; EAT; MCL1L; MCL1S; Mcl-1; BCL2L3; MCL1-ES; bcl2-L-3; mcl1/EAT
NCBI Protein Information	induced myeloid leukemia cell differentiation protein Mcl-1; bcl-2-like protein 3; myeloid cell leukemia ES; bcl-2-related protein EAT/mcl1

UniProt Protein Name	Induced myeloid leukemia cell differentiation protein Mcl-1
UniProt Gene Name	MCL1
UniProt Synonym Gene Names	BCL2L3; Bcl2-L-3
UniProt Entry Name	MCL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mcl1-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329471>