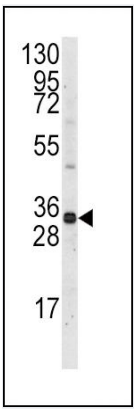
MCL1 Antibody – Rabbit Polyclonal

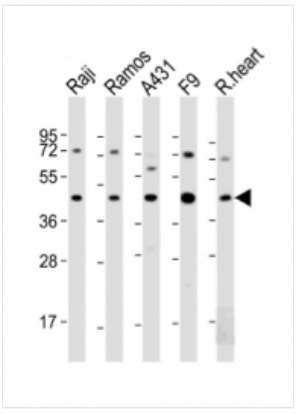
PRODUCT OVERVIEW

Product Name	MCL1, Polyclonal Antibody
Full Product Name	MCL1, BH3 Domain Specific (MCL1, BCL2L3, Induced myeloid leukemia cell differentiation protein Mcl-1, Bcl-2-like protein 3, Bcl-2-related protein EAT/mcl1, mcl1/EAT) (MaxLight 405)
Product Gene Name	anti-MCL1 antibody
Product Synonym Names	MCL1; BCL2L3; Induced myeloid leukemia cell differentiation protein Mcl-1; Bcl-2-like protein 3; Bcl-2-related protein EAT/mcl1; mcl1/EAT
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes the BH3 domain of human MCL1 at ~37kD. Species Crossreactivity: mouse, rat
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	37,337 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (150547027..150552214, complement). Location: 1q21
OMIM	159552
3D Structure	ModBase 3D Structure for Q07820
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 191-226 in the BH3 domain of human MCL1.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-MCL1 antibody	Antibodies; Cancer Markers; Leukemia
Applications Tested/Suitable for anti-MCL1 antibody	Immunohistochemistry (IHC) Paraffin, FLISA, Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-MCL1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MCL1 antibody	MBS6319644 is an antibody targeting MCL1. Also known as MCL1, BH3 Domain Specific (MCL1, BCL2L3, Induced myeloid leukemia cell differentiation protein Mcl-1, Bcl-2-like protein 3, Bcl-2-related protein EAT/mcl1, mcl1/EAT) (MaxLight 405). Reactive in Human, Mouse, Rat. Host: Rabbit.
Product References and Citations for anti-MCL1 antibody	1. Crossley, L.J., J. Leukoc. Biol. 74(4):583-592 (2003). 2. Kotelkin, A., et al., J. Virol. 77(17):9156-9172 (2003). 3. Erwert, R.D., et al., Microb. Pathog. 35(2):87-93 (2003). 4. Liu, H., et al., Blood 102(1):344-352 (2003). 5. Nijhawan, D., et al., Genes Dev. 17(12):1475-1486 (2003).

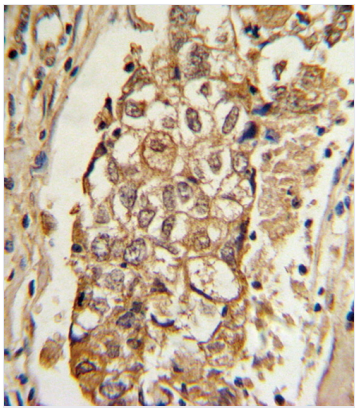
Other Notes	Small volumes of anti-MCL1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



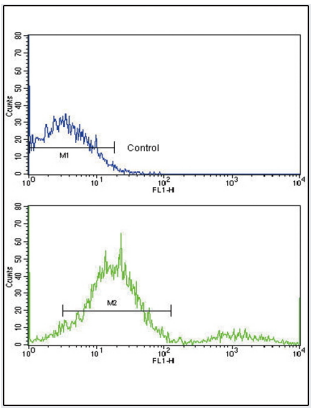
Western Blot (WB) of anti-MCL1 antibody
Western Blot analysis in Ramos cell line lysates (35ug/lane) usingMBS6001583. Mcl-1-BH3(arrow) was detected usingMBS6001583.



Testing Data of anti-MCL1 antibody
All lanes: MBS6001583 (1:2000) Lane 1: Raji whole cell lysate Lane 2: Ramos whole cell lysate Lane 3: A431 whole cell lysate Lane 4: F9 whole cell lysate Lane 5: A20 whole cell lysate. Lysates at 20ug/lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1:10,000. Predicted band size: 37kD. Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (IHC) of anti-MCL1 antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human breast carcinoma with MBS6001583 which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of MBS6001583 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-MCL1 antibody
Flow Cytometric analysis of ZR-75-1 cells using MBS6001583 (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCL1. It may not necessarily be applicable to this product.

NCBI GI #	309747067
NCBI GeneID	4170
NCBI Accession #	NP_001184249.1
UniProt Primary Accession #	Q07820
UniProt Secondary Accession #	Q9HD91; Q9NRQ3; Q9NRQ4; Q9UHR7; Q9UHR8; Q9UHR9; Q9UNJ1; B2R6B2; D3DV03; D3DV04
UniProt Related Accession #	Q07820
GenBank Nucleotide #	NM_001197320.1
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
UniProt Protein Name	Induced myeloid leukemia cell differentiation protein Mcl-1
UniProt Synonym Protein Names	Bcl-2-like protein 3; Bcl2-L-3; Bcl-2-related protein EAT/mcl1; mcl1/EAT
Protein Family	Induced myeloid leukemia cell differentiation protein
UniProt Gene Name	MCL1
UniProt Synonym Gene Names	BCL2L3; Bcl2-L-3
UniProt Entry Name	MCL1_HUMAN
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
NCBI Summary for MCL1	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]
UniProt Comments for MCL1	MCL1: a myeloid cell leukemia protein of the Bcl-2 family of proteins. Two alternatively spliced transcripts encoding distinct isoforms have been identified. The longer gene product (isoform 1) enhances cell survival by inhibiting apoptosis while the alternatively spliced shorter gene product (isoform 2) promotes apoptosis and is death-inducing. Protein type: Membrane protein, integral; Mitochondrial; Channel, misc.; Inhibitor; Apoptosis Chromosomal Location of Human Ortholog: 1q21 Cellular Component: nucleoplasm; mitochondrial outer membrane; mitochondrion; membrane; mitochondrial matrix; cytoplasm; integral to membrane; cytosol; nucleus Molecular Function: protein binding; protein homodimerization activity; protein heterodimerization activity; protein channel activity; BH3 domain binding Biological Process: apoptotic mitochondrial changes; DNA damage response, signal transduction resulting in induction of apoptosis; response to cytokine stimulus; multicellular organismal development; cellular homeostasis; cell fate determination
Research Articles on MCL1	**1.** It possesses an ability to downregulate the antiapoptotic Mcl-1 protein.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/mcl1/6319644