ARG55381
anti-MCL1 antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MCL1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MCL1
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 191-226 of Human MCL1.
Conjugation	Un-conjugated
Alternate Names	Bcl-2-related protein EAT/mcl1; BCL2L3; MCL1S; Induced myeloid leukemia cell differentiation protein Mcl-1; MCL1-ES; mcl1/EAT; Bcl-2-like protein 3; EAT; Mcl-1; bcl2-L-3; Bcl2-L-3; MCL1L; TM

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:50
IHC-P	1:10 - 1:50
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

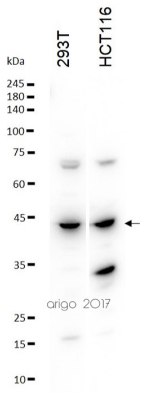
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

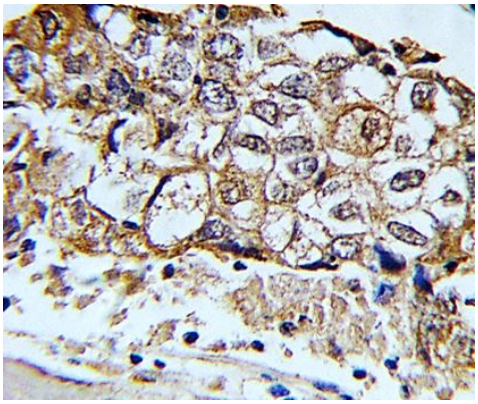
Gene Symbol	MCL1
Gene Full Name	myeloid cell leukemia 1
Background	This gene encodes an anti-apoptotic protein, which is a member of the Bcl-2 family. Alternative splicing results in multiple transcript variants. The longest gene product (isoform 1) enhances cell survival by inhibiting apoptosis while the alternatively spliced shorter gene products (isoform 2 and isoform 3) promote apoptosis and are death-inducing. [provided by RefSeq, Oct 2010]
Function	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. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody
Calculated Mw	37 kDa
PTM	Cleaved by CASP3 during apoptosis. In intact cells cleavage occurs preferentially after Asp-127, yielding a pro-apoptotic 28 kDa 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.
Cellular Localization	Membrane; Single-pass membrane protein. Cytoplasm. Mitochondrion. Nucleus, nucleoplasm. Note=Cytoplasmic, associated with mitochondria

Images



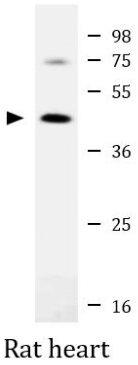
ARG55381 anti-MCL1 antibody WB image

Western blot: 30 µg of 293T and HCT116 cell lysates stained with ARG55381 anti-MCL1 antibody at 1:500 dilution.



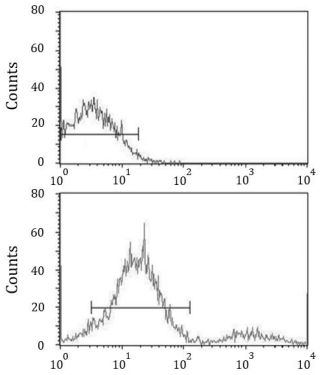
ARG55381 anti-MCL1 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast carcinoma stained with ARG55381 anti-MCL1 antibody.



ARG55381 anti-MCL1 antibody WB image

Western blot: 20 µg of Rat heart lysate stained with ARG55381 anti-MCL1 antibody at 1:2000 dilution.



ARG55381 anti-MCL1 antibody FACS image

Flow Cytometry: ZR-75-1 cells stained with ARG55381 anti-MCL1 antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.