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Datasheet for ABIN6657787 anti-MCL-1 antibody (Internal Region)

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Overview

Quantity:	25 µL
Target:	MCL-1 (MCL1)
Binding Specificity:	Internal Region
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MCL-1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	McI-1 Antibody
Immunogen:	This affinity purified antibody was purified from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to an internal region of mouse Mcl-1 conjugated to Keyhole Limpet Hemocyanin (KLH).
Isotype:	lgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum.
Purification:	Anti-Mcl-1 affinity purified antibody was prepared from monospecific antiserum by immunoaffinity chromatography using synthetic peptide coupled to agarose beads followed by cross adsorption to remove any unwanted reactivity.
Sterility:	Sterile filtered

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Target:	MCL-1 (MCL1)
Alternative Name:	McI-1 (MCL1 Products)
Background:	Synonyms: rabbit anti-Mcl-1 antibody, Mcl1, Mcl 1, Bcl 2 related protein EAT/mcl1 antibody,
	Bcl2 related antibody, EAT antibody, Induced myeloid leukemia cell differentiation protein Mcl- antibody
	Background: Regulated apoptosis is essential for both the development and the subsequent
	maintenance of the immune system. Interleukins, including IL-2, IL-4, IL-7 and IL-15, heavily
	influence lymphocyte survival during the vulnerable stages of VDJ rearrangement and later in
	ensuring cellular homeostasis, but the genes specifically responsible for the development and
	maintenance of lymphocytes have not been identified. The Anti apoptotic protein Mcl-1
	(myeloid cell leukemia sequence 1 (BCL2-related)) is an attractive candidate, as it is highly
	regulated, appears to enhance short-term survival and functions at an apical step in genotoxic
	deaths. However, Mcl-1 deficiency results in peri-implantation lethality. Mice, conditional for
	Mcl-1, display a profound reduction in B and T lymphocytes when Mcl-1 is removed. Deletion o
	Mcl-1 during early lymphocyte differentiation increases apoptosis and arrests the developmen
	at pro-B-cell and double negative T-cell stages. Induced deletion of Mcl-1 in peripheral B- and T
	cell populations results in their rapid loss. Moreover, IL-7 both induces and requires Mcl-1 to
	mediate lymphocyte survival. Mcl-1 is essential both early in lymphoid development and later
	on in the maintenance of mature lymphocytes.
	Gene Name: Mcl1
Gene ID:	17210
UniProt:	P97287
Pathways:	MAPK Signaling
Application Details	
Application Notes:	ELISA_Dilution: 1:10,000 - 1:50,000
	Western_Blot_Dilution: 1:10,000
	Other: User Optimized
Comment:	Suggested Applications: FC, IF, IHC, IP
	Anti-Mcl-1 Antibody has been tested by ELISA and western blot and is suitable for
	immunoprecipitation. This antibody detects mouse McI-1 and is not expected to cross react
	with the human sequence. Cross reactivity with McI-1 from other sources is unknown. This
	antibody is highly specific, showing no bands in null cell lysates from Mcl-1 knockout mice eve

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Application Details		
	when grossly over-exposed. Mouse Mcl-1 (myeloid cell leukemia sequence 1) is composed of 331 amino acids and is reported to be 35.2 kDa in size. The human ortholog consists of 351 amino acids and is reported to be 37.3 kDa in size.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 μ L). To minimize loss of volume dilute 1:10 by adding 225 μ L of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.	
Expiry Date:	12 months	
Publications		
Product cited in:	Karbon, Schuler, Braun, Eichin, Haschka, Drach, Sotillo, Geley, Spierings, Tijhuis, Foijer, Villunger: "Chronic spindle assembly checkpoint activation causes myelosuppression and gastrointestinal atrophy." in: EMBO reports , Vol. 25, Issue 6, pp. 2743-2772, (2024) (PubMed).	
	Lindenboim, Zohar, Gundersen, Worman, Stein: "LINC complex protein nesprin-2 has pro- apoptotic activity via Bcl-2 family proteins." in: Cell death discovery , Vol. 10, Issue 1, pp. 29, (2024) (PubMed).	
	Prucsi, Zimny, Płonczyńska, Zubrzycka, Potempa, Sochalska: "Porphyromonas gingivalis	

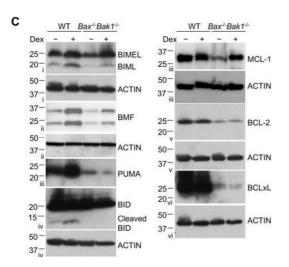
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Quarato, Mari, Barrows, Yang, Ruehl, Chen, Guy, Low, Chen, Green: "Mitophagy restricts BAX/BAK-independent, Parkin-mediated apoptosis." in: **Science advances**, Vol. 9, Issue 21, pp. eadg8156, (2023) (PubMed).

Huang, Chin, Reljic, Djajawi, Tan, Gong, Stroud, Huang, van Delft, Dewson: "Mitochondrial E3 ubiquitin ligase MARCHF5 controls BAK apoptotic activity independently of BH3-only proteins." in: **Cell death and differentiation**, Vol. 30, Issue 3, pp. 632-646, (2023) (PubMed).

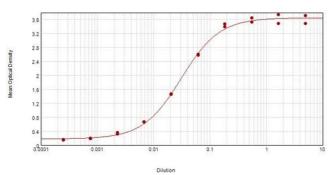
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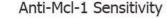
Images

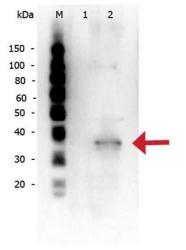


Western Blotting

Image 1. Characterization of clonal lymphoid lines mutant for combinations of pro-apoptotic BCL2 family proteins.a Whole-cell lysates from Bax-/-Bak1-/- and three independent Bax-/-Bak1-/-Bim-/- cell clones treated with 1µM Dex treatment for 24hrs were subjected to western blot analysis to detect BIM protein. Upper panel: WEHI7 mutant lines, panel: p53-/- T lymphoma lower mutant lines. bBax+/+Bak1+/+ WEHI7 cells expressing Cas9 were transduced with sgRNAs targeting mouse Bim, Bmf and Puma. Following treatment with doxycycline to induce sgRNA expression, clones were isolated and validated for absence of BIM, BMF, and PUMA by western blotting after 24hrs treatment with 1µM Dex. c Wild type (WT) and Bax-/-Bak1-/- WEHI7 cells were treated for 24hrs with 1 μ M Dex and lysates were run on replicate gels and analyzed by western blot using antibodies specific for the indicated BCL2 family proteins. Roman numerals to the left of blots (ivi) indicate the membranes probed. d Whole-cell lysates







from Bax+/+Bak1+/+ and Bax-/-Bak1-/-p53-/- T lymphoma cells treated with 1 μ M Dex for 24hrs were tested by western for expression of BIM. Note that the absence of protein in the Dex-treated WT p53-/- T lymphoma cells is due to the death of most of the cells by 24hours. - figure provided by CiteAb. Source: PMID32513923

ELISA

Image 2. Rabbit anti-McI-1 ELISA ELISA results of purified Rabbit anti-McI-1 Antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1µg of conjugate. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gel, Goat anti-Rabbit IgG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) and TMB ELISA Peroxidase Substrate.

Western Blotting

Image 3. Rabbit anti-McI-1 WB Western Blot of Rabbit anti-McI-1 antibody. Lane 1: MEF WT Lysate. Lane 2: MEL depleted McI-1 lysate. Load: 15 µg per lane. Primary antibody: McI-1 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: Blocking Buffer for Fluorescent Western Blotting (ABIN925618) for 30 min at RT. Predicted/Observed size: 37 kDa, 37 kDa for McI-1.

Please check the product details page for more images. Overall 4 images are available for ABIN6657787.

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