

ABGENEX Pvt. Ltd., E-5, Infocity, KIIT Post Office, Tel: +91-674-2720712, +91-9437550560 Email: info@abgenex.com

Bhubaneswar, Odisha - 751024, INDIA

## 20-1070: Polyclonal antibody to McI-1

Clonality: Polyclonal

Application: WB,IHC,IP,IF/ICC

 Reactivity :
 Human

 Gene :
 MCL1

 Gene ID :
 4170

 Uniprot ID :
 Q07820

 Format :
 Sera

Alternative Name : MCL1,BCL2L3 Isotype : Rabbit IgG

Immunogen Information: A synthetic peptide of human McI-1 (amino acids 121-139 SPEEELDGYEPEPLGKRPA) was used

as immunogen for this antibody

## **Description**

This antibody recognizes McI-1, isoforms 1 and 2. Human McI-1 isoform 1 is a 350 amino acid protein. BcI2 family members can be divided into 3 main subfamilies on the basis of their function and the content of their BcI2 homology (BH) domains, for example: 1) Prosurvival: BcI-2, BcIXL, BcIW, A1, and McI-1and 2) Proapoptotic (multidomain): Bax, Bak, and Bok. 3) BH3-only (proapoptotic): Bad, BcI-XS, Bid, Bik, Bim, Blk, Bmf, Bnip, Noxa, and Puma. The BH domains are important for function as well as for heterodimerization between family members. Typical prosurvival members have all four BH domains (1-4), whereas proapoptotic (multidomain) members have BH1, 2 and 3 domains and BH3-only members have only the BH3 domain. Overall, the relative ratio of prosurvival and proapoptotic proteins determines the suseptibility of a cell to various apoptotic stimuli. Prosurvival proteins are often elevated in diverse cancers and have the potential to confer resistance to both endogenous cell death stimuli and cancer treatments. Alterations in the ratio or levels of BcI2 proteins have been also associated with nonmalignant diseases including neurodegenerative diseases, autoimmune diseases, AIDs, Down's syndrome, cardiovascular diseases, diabetes, glomerulonephritis, and muscular dystrophy.

## **Product Info**

**Amount :** 50 μl **Content :** 50 μl sera

Storage condition:

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Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200, IF/ICC: 1:500-1:3000

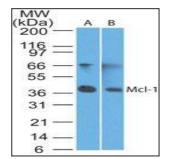


Fig:1 Western blot analysis of Mcl-1 in A) Ramos and B) ThP-1 lysate using Mcl-1 antibody at 1:2000.



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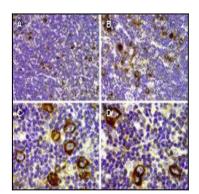


Fig:2 Formalin-fixed paraffin-embedded tissue sections of human diffuse, aggressive Non-Hodgkin's lymphoma (NHL) of B cell lineage stained for Mcl-1 expression using Mcl-1 antibody at 1:2000. A-D, Mcl-1 staining shown as varying magnifications. Hematoxylin-eosin counterstain.