


Anti-Human Mcl-1 Purified


Catalog Number: 14-6701

Also known as: Myeloid Cell Leukemia 1, Bcl2-L-3

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

 **Contents:** Anti-Human Mcl-1 Purified
Catalog Number: 14-6701
Clone: Ab22
Concentration: 0.5 mg/mL
Host/Isotype: Mouse IgG1, kappa

 **Formulation:** aqueous buffer, 0.09% sodium azide
Temperature Limitation: Store at 2-8°C.
Batch Code: Refer to vial
Use By: Refer to vial

Description

This Ab22 monoclonal antibody reacts with the human myeloid cell leukemia-1 (Mcl-1) protein. This 40 kDa Bcl-2 family member is expressed in B and T cells, macrophages, neutrophils, and hematopoietic stem cells. Mcl-1 is also expressed in non-immune cells such as fibroblasts, epithelial cells, neuroendocrine cells, chondrocytes, and hepatocytes. Reportedly induced by growth factors and cytokines in normal cells, Mcl-1 expression of Mcl-1 can be dysregulated in various leukemias and cancer. Mcl-1 mediates cell survival and proliferation by sequestering the pro-apoptotic Bcl-2 proteins Bak, Bax, and Bim. This protein is also involved in germinal center and memory B cell formation, as well as in myeloid and early lymphoid differentiation. Finally, Mcl-1 activity and dimerization with Bcl-2 family members is dependent on serine and threonine phosphorylation.

Applications Reported

This Ab22 antibody has been reported for use in immunoblotting (WB) and immunocytochemistry (ICC).

Applications Tested

This Ab22 antibody has been tested by immunocytochemistry on fixed and permeabilized MCF-7 cells at less than or equal to 5 µg/mL. This Ab22 has also been tested by western blot of reduced Jurkat cell lysate and can be used at 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Vikstrom I, Carotta S, Lüthje K, Peperzak V, Jost PJ, Glaser S, Busslinger M, Bouillet P, Strasser A, Nutt SL, Tarlinton DM. Mcl-1 is Essential for Germinal Center Formation and B Cell Memory. *Science*. 2010 Oct 7.

Thomas LW, Lam C, Edwards SW. Mcl-1: the molecular regulation of protein function. *FEBS Lett*. 2010 Jul 16;584(14):2981-9.

Kobayashi S, Lee SH, Meng XW, Mott JL, Bronk SF, Werneburg NW, Craig RW, Kaufmann SH, Gores GJ. Serine 64 phosphorylation enhances the antiapoptotic function of Mcl-1. *J Biol Chem*. 2007 Jun 22;282(25):18407-17.
(Ab22, WB)

Krajewski S, Bodrug S, Krajewska M, Shabaik A, Gascoyne R, Berean K, Reed JC. Immunohistochemical analysis of Mcl-1 protein in human tissues. Differential regulation of Mcl-1 and Bcl-2 protein production suggests a unique role for Mcl-1 in control of programmed cell death in vivo. *Am J Pathol*. 1995 Jun;146(6):1309-19.

Related Products

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

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