Human McI-1 Antibody

Monoclonal Mouse $\lg G_{2B}$ Clone # 542808

Catalog Number: MAB828

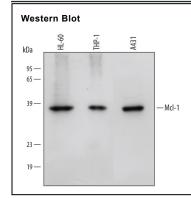
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Mcl-1.	
Source	Monoclonal Mouse IgG _{2B} Clone # 542808	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human Mcl-1 Met1-Gly230 Accession # Q07820	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	Immersion fixed paraffin-embedded sections of human lymphoma

DATA



Detection of Human McI-1 by Western Blot. Western blot shows lysates of HL-60 human acute promyelocytic leukemia cell line, THP-1 human acute monocytic leukemia cell line, and A431 human epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human McI-1 Monoclonal Antibody (Catalog # MAB828) followed by HRP-conjugated Anti-Mouse 1g G Secondary Antibody (Catalog # HAF007). A specific band was detected for McI-1 at approximately 38 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Neconstitution	reconstitute at 0.5 mg/me in steme i bo.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mcl-1 (myeloid cell leukemia-1; also known as Bcl-2-like protein 3) is a member of the Bcl-2 family of proteins. Alternative splicing creates two distinct isoforms: 40 kDa Mcl-1L (long; 350 amino acids (aa)) enhances cell survival by inhibiting apoptosis, while 32 kDa Mcl-1S (short; 271 aa with divergence in the last 41 aa) promotes apoptosis. The elimination of Mcl-1L is a required step for DNA damage-induced apoptosis. Mcl-1 can be modified by phosphorylation on S121 and T163 by JNK, which triggers apoptosis, or polyubiquitination, which enhances degradation of Mcl-1. Within the first 230 aa, human Mcl-1 shares ~68% aa identity with mouse and rat Mcl-1.

