

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	<i>E. coli</i> -derived recombinant human Mcl-1 Met1-Gly230 Accession # Q07820
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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