

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Mcl-1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 602901
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Mcl-1 Met231-Arg350 Accession # Q07820
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

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) is a member of the Bcl-2 family of proteins. Alternative splicing creates two distinct isoforms. The 40 kDa, 350 amino acid (aa) isoform 1, also known as Mcl-1L (long), enhances cell survival by inhibiting apoptosis, while the ~35 kDa, 271 aa isoform 2, also known as Mcl-1S (short; 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. Within aa 231-350 (unique to Mcl-1L), human Mcl-1 shares 93% and 96% aa identity with mouse and rat Mcl-1, respectively.

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