

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Bcl-x _L in direct ELISAs and detects human, mouse, and rat Bcl-x _L in Western blots.
Source	Monoclonal Rabbit IgG Clone # 2052A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Bcl-x _L Met1-Arg212 Accession # Q07817
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

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

Bcl-x_L is a member of the Bcl-2 family of proteins that regulates outer mitochondrial membrane permeability (1, 2). Bcl-x_L is an anti-apoptotic member that prevents release of cytochrome c from the mitochondria intermembrane space into the cytosol. Bcl-x_L is present on the outer mitochondrial membrane and is also found on other membranes in some cell types. Natural Bcl-x_L contains a carboxyl-terminal mitochondria targeting sequence. Recombinant Bcl-x_L missing the mitochondrial targeting sequence maintains its ability to neutralize pro-apoptotic Bcl-2 family members. Neutralization by Bcl-x_L appears to be mediated through binding the BH3 region of pro-apoptotic Bcl-2 family members. This activity does not require the mitochondrial targeting sequence.

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