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Anti-Bcl-2 Mouse mAb [77F45]

Catalog No.: A32004

Basic Information

Catalog No. (Cat.No.)	A32004
Host species	Mouse
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Synonyms	Bcl-2,BCL2A,Bcl-2 (p55)

Product Information

Target	Bcl-2
Molecular Weight(Calculated)	26 kDa
Molecular Weight(Observed)	26 kDa
Isotype	IgG2b,Kappa
Conjugation	NA
Concentration	Please check the information on the tube.
Clonality	Monoclonal
Clone No.	77F45
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:500-1:2000
IF	1:100-1:500
ELISA	1:1000-1:5000

Target Information

Protein Name	B-cell lymphoma-2
Gene Name	*BCL2*
Domain	human Bcl-2, aa 1-100
Background	Bcl-2 (B-cell lymphoma-2) is a classic anti-apoptotic member of the Bcl-2 protein family encoded by the BCL2 gene, functioning as a central hub balancing cell survival and apoptosis. Predominantly localized on the outer mitochondrial membrane, endoplasmic reticulum and nuclear membrane, Bcl-2 binds and sequesters pro-apoptotic proteins such as Bax and Bad, inhibits mitochondrial pore formation and the release of apoptotic factors, and blocks the endogenous apoptotic pathway to sustain cell survival. Aberrant overexpression of Bcl-2 significantly enhances anti-apoptotic capacity, driving abnormal cell proliferation, drug resistance and malignant transformation. It serves as a critical biomarker for tumor progression, chemotherapy resistance and poor prognosis, as well as a well-established target for tumor targeted therapy.