

DATASHEET

BCL2 Rabbit Monoclonal Antibody(C770)

CAT. NO. AMA00382

KEY FEATURES

Target	BCL2	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB, IHC, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.05% BSA and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells . Regulates cell death by controlling the mitochondrial membrane permeability . Appears to function in a feedback loop system with caspases . Inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1) . Also acts as an inhibitor of autophagy: interacts with BECN1 and AMBRA1 during non-starvation conditions and inhibits their autophagy function . May attenuate inflammation by impairing NLRP1-inflammasome activation, hence CASP1 activation and IL1B release .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:1000 - 1:3000
IHC	1:100 - 1:300
IF/ICC	1:100 - 1:300

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Recombinant rabbit monoclonal antibody to BCL2
Specificity	Recognizes endogenous levels of BCL2 protein.
Antibody Type	Primary antibody, Recombinant
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human BCL2. The exact sequence is proprietary.
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 26 kD; Observed: 26 kD
Form/Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.05% BSA and 0.01% sodium azide.
Alternative Names	Apoptosis regulator Bcl-2
Gene Symbol	BCL2
Entrez Gene	596(Human); 12043(Mouse); 24224(Rat)
SwissProt	P10415(Human); P10417(Mouse); P49950(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

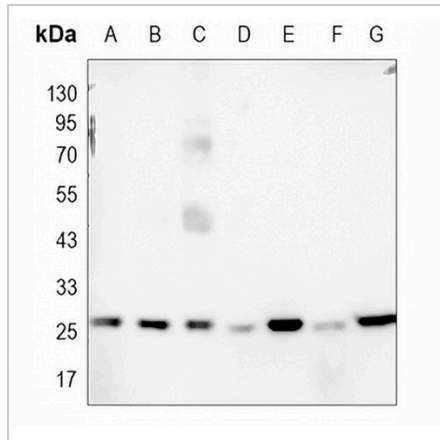
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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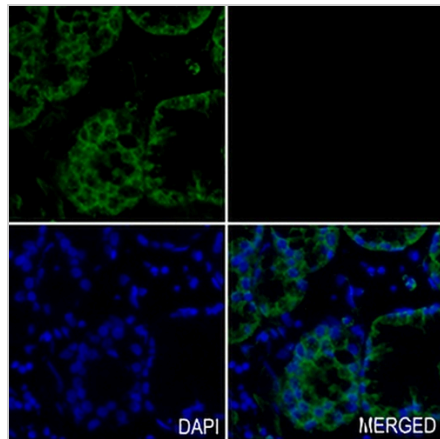
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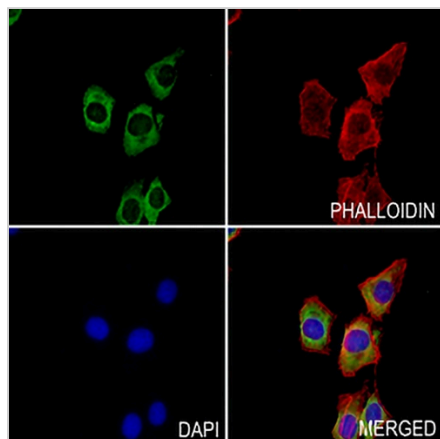
DATA



Western blot analysis of BCL2 expression in H1792 (A), A2780 (B), HUT78 (C), mouse spleen (D), mouse kidney (E), rat spleen (F), rat kidney (G) whole cell lysates. (Predicted band size: 26 kD; Observed band size: 26 kD)



Immunohistochemical analysis of BCL2 staining in human stomach cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. Tyramide-AREX® Fluor 488 (green) was used as the chromogen. The section was then counterstained with DAPI (blue).



Immunofluorescent analysis of BCL2 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.