

# Anti-Bcl-2 Antibody

## ER1706-47



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IF-Cell, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 26 kDa

**Description:** Bcl-2 is one among many key regulators of apoptosis, which are essential for proper development, tissue homeostasis, and protection against foreign pathogens. Human Bcl-2 is an anti-apoptotic, membrane-associated oncoprotein that can promote cell survival through protein-protein interactions with other Bcl-2 related family members, such as the death suppressors Bcl-xL, Mcl-1, Bcl-w, and A1 or the death agonists Bax, Bak, Bik, Bad, and Bid. The anti-apoptotic function of Bcl-2 can also be regulated through proteolytic processing and phospho-rylation. Bcl-2 may promote cell survival by interfering with the activation of the cytochrome c/Apaf-1 pathway through stabilization of the mitochondrial membrane. Mutations in the Bcl-2 gene can contribute to cancers where normal physiological cell death mechanisms are compromised by deregulation of the anti-apoptotic influence of Bcl-2.

**Immunogen:** Synthetic peptide within human BCL2 aa 20-74.

**Positive control:** HeLa, THP-1, HepG2, MCF-7, SH-SY5Y.

**Subcellular location:** Mitochondrion outer membrane, Nucleus membrane, Endoplasmic reticulum membrane, Cytoplasm.

**Database links:** SwissProt: P10415 Human

### Recommended Dilutions:

<b>WB</b>	1:500-1:1,000
<b>IF-Cell</b>	1:100-1:200
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:100

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified.

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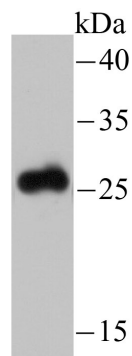
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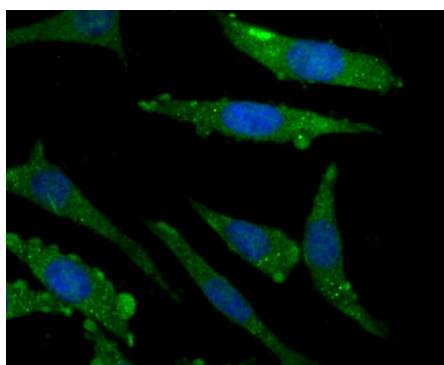
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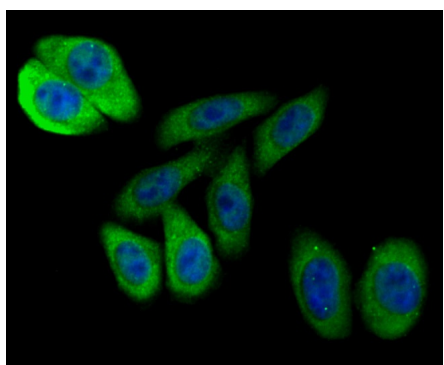
## Images



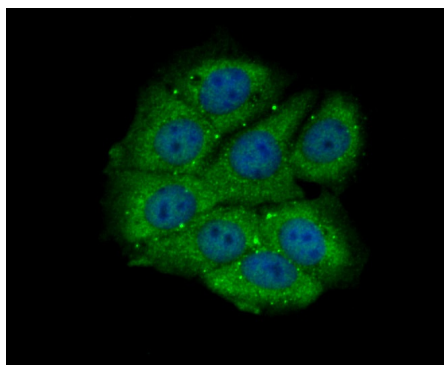
**Fig1:** Western blot analysis of BCL2 on HeLa cell lysate using anti-BCL2 antibody at 1/1,000 dilution.



**Fig2:** ICC staining BCL2 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig3:** ICC staining BCL2 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig4:** ICC staining BCL2 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

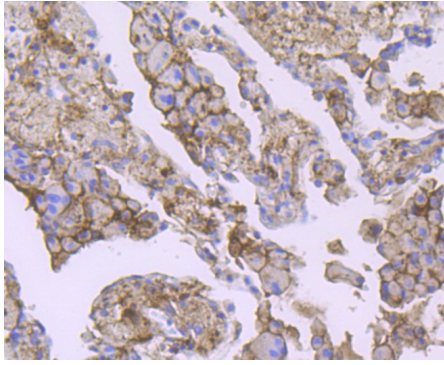
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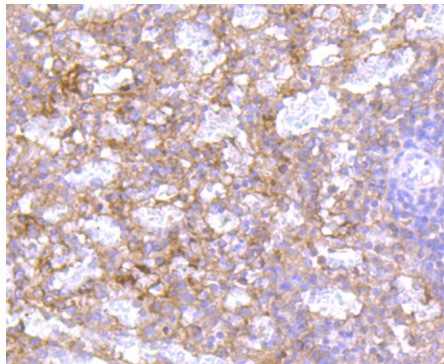
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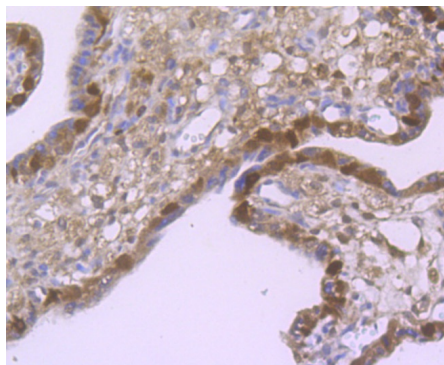
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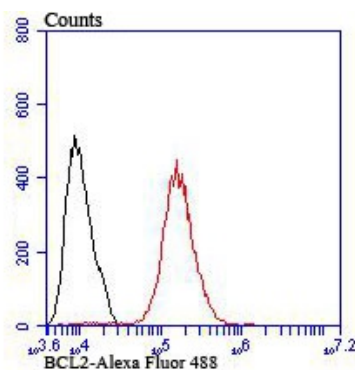
**Fig5:** Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-BCL2 antibody. Counter stained with hematoxylin.



**Fig6:** Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-BCL2 antibody. Counter stained with hematoxylin.



**Fig7:** Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-BCL2 antibody. Counter stained with hematoxylin.



**Fig8:** Flow cytometric analysis of MCF-7 cells with BCL2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Sun Y et al. Therapeutic effect of apocynin through antioxidant activity and suppression of apoptosis and inflammation after spinal cord injury. *Exp Ther Med* 13:952-960 (2017).
2. Zhang Z et al. Sepia ink oligopeptide induces apoptosis and growth inhibition in human lung cancer cells. *Oncotarget* 8:23202-23212 (2017).

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