# BCL-2 Antibody

<table>
<thead>
<tr>
<th>Cat.#: AF6139</th>
<th>Conc.: 1mg/ml</th>
<th>Mol.Wt.: 26kDa</th>
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<tr>
<td>Size: 100ul,200ul</td>
<td>Source: Rabbit</td>
<td>Clonality: Polyclonal</td>
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**Application:**

**Reactivity:**
- Human, Mouse, Rat

**Purification:**
The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

**Specificity:**
BCL-2 Antibody detects endogenous levels of total BCL-2.

**Immunogen:**
A synthesized peptide derived from human BCL-2, corresponding to a region within the internal amino acids.

**Uniprot:**
P10415

**Description:**
This gene encodes an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma. Two transcript variants, produced by alternate splicing, differ in their C-terminal ends.

**Similarity:**
BH1 and BH2 domains are required for the interaction with BAX and for anti-apoptotic activity. The BH4 motif is required for anti-apoptotic activity and for interaction with RAF1 and EGLN3. The loop between motifs BH4 and BH3 is required for the interaction with NLRP1. Belongs to the Bcl-2 family.

**Storage Condition and Buffer:**
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20°C. Stable for 12 months from date of receipt.

Western blot analysis of extracts from various samples, using BCL-2 Antibody:
- Lane 1: EC304 cells, blocked with antigen-specific peptides,
- Lane 2: EC304 cells,
- Lane 3: Mouse muscle.
Western blot analysis of extracts from Mouse liver, using BCL-2 Antibody. Lane 1 was treated with the blocking peptide.

Western blot analysis of extracts from various samples, using BCL-2 Antibody.
Lane 1: 293 cells treated with the blocking peptide.
Lane 2: 293 cells;
Lane 3: mouse brain tissue;
Lane 4: HuvEc cells.

Western blot analysis of extracts from rat brain, mouse brain, mouse muscle, rat liver, using BCL-2 Antibody.

AF6139 at 1/100 staining Rat ovary tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF6139 at 1/100 staining Human pancreatic cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF6139 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.
AF6139 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF6139 at 1/100 dilution staining bcl2 in human breast carcinoma by Immunohistochemistry using paraffin-embedded tissue

AF6139 staining Hela cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AF6139 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.