**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for UM800117CF

## BCL2 Mouse Monoclonal Antibody [Clone ID: UMAB225]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | UMAB225 |
| **Applications:** | IHC, WB |
| **Recommended Dilution:** | IHC 1:500 |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Mouse |
| **Isotype:** | IgG2a |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Full length human recombinant protein of human BCL2 (NP_000624) produced in HEK293T cell. |
| **Formulation:** | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| **Reconstitution Method:** | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| **Purification:** | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Predicted Protein Size:** | 26.1 kDa |
| **Gene Name:** | BCL2 apoptosis regulator |
| **Database Link:** | NP_000624<br>Entrez Gene 12043 MouseEntrez Gene 24224 RatEntrez Gene 596 Human<br>P10415 |

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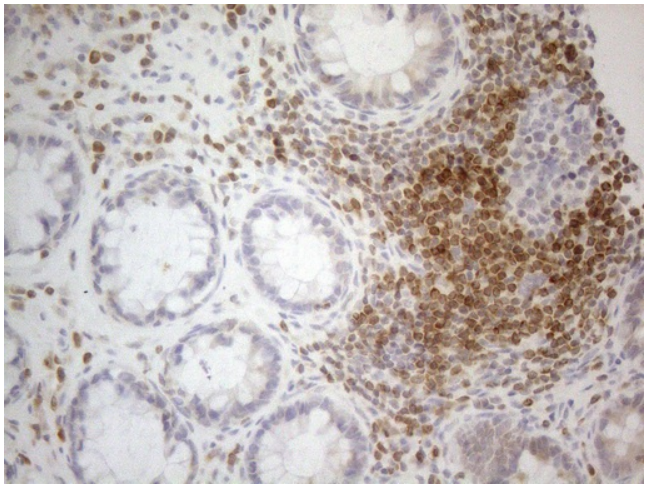
**Background:** This gene encodes an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma. Two transcript variants, produced by alternate splicing, differ in their C-terminal ends. [provided by RefSeq, Jul 2008]

**Synonyms:** Bcl-2; PPP1R50

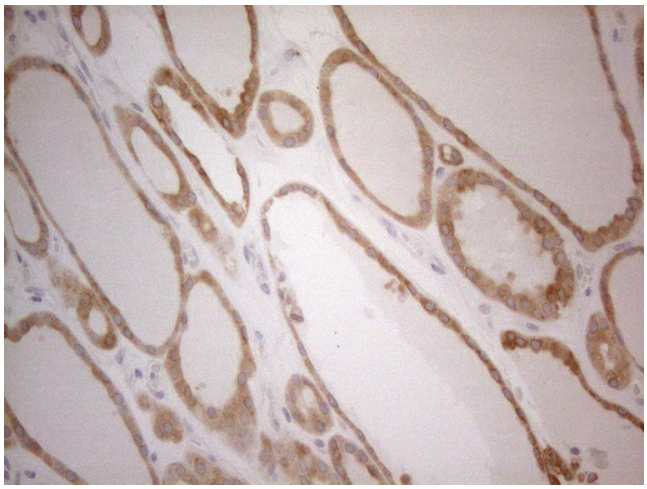
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transmembrane

**Protein Pathways:** Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Focal adhesion, Neurotrophin signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer

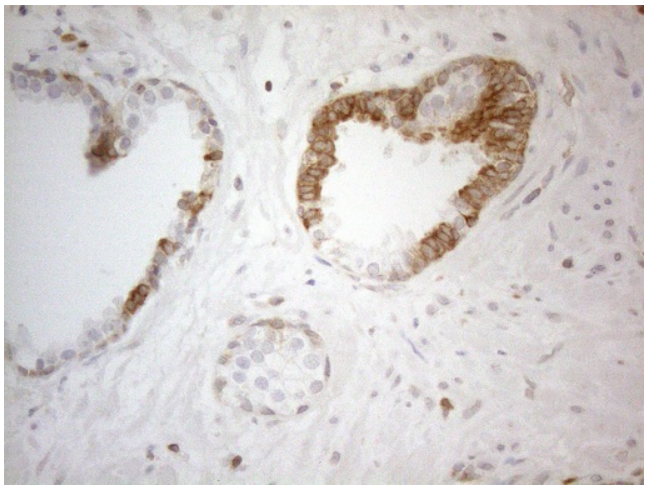
## Product images:



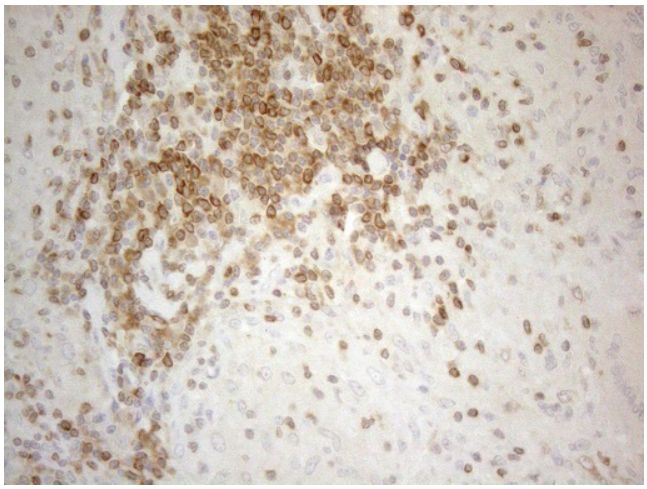
Immunohistochemical staining of paraffin-embedded human colon tissue within the normal limits using anti-BCL2 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800117] was diluted 1:500 and detection was done with HRP secondary and DAB chromogen.



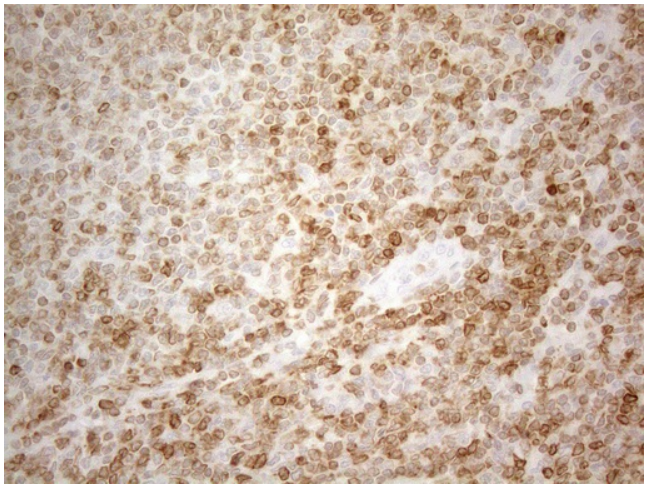
Immunohistochemical staining of paraffin-embedded human thyroid tissue within the normal limits using anti-BCL2 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800117] was diluted 1:500 and detection was done with HRP secondary and DAB chromogen. Thyroid cells show mainly cytoplasmic and membraneous staining.



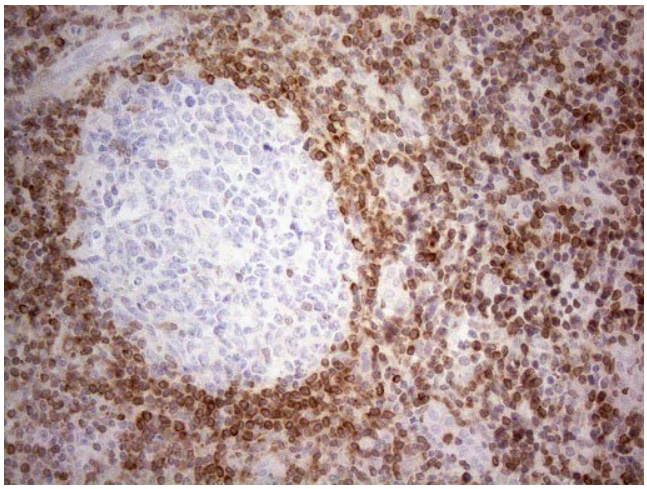
Immunohistochemical staining of paraffin-embedded carcinoma of cuman prostate tissue using anti-BCL2 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800117] was diluted 1:500 and detection was done with HRP secondary and DAB chromogen. Tumor cells show mainly cytoplasmic and membraneous staining.



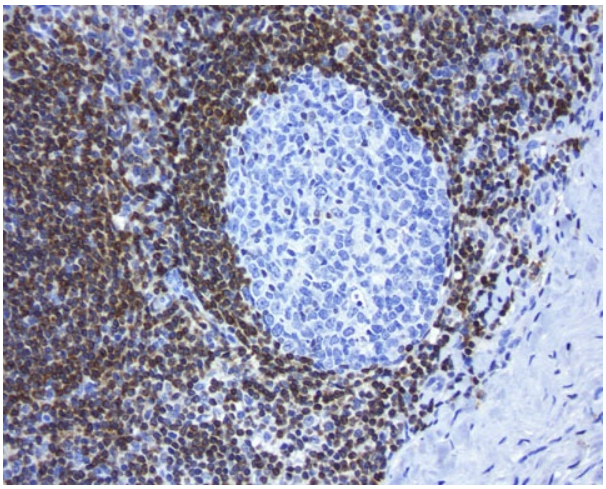
Immunohistochemical staining of paraffin-embedded human lymph node tissue within the normal limits using anti-BCL2 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800117] was diluted 1:500 and detection was done with HRP secondary and DAB chromogen. Positive cells are mainly cytoplasmic and membraneous staining some nuclear stain.



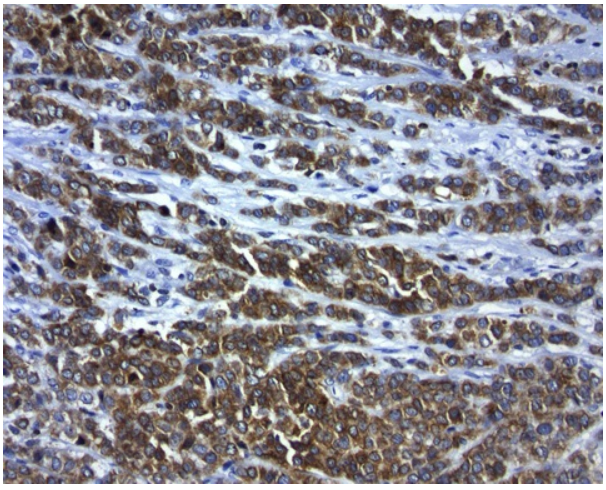
Immunohistochemical staining of paraffin-embedded human lymphoma tissue using anti-BCL2 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800117] was diluted 1:500 and detection was done with HRP secondary and DAB chromogen. Positive cells have nuclear, cytoplasmic, and membraneous stain.



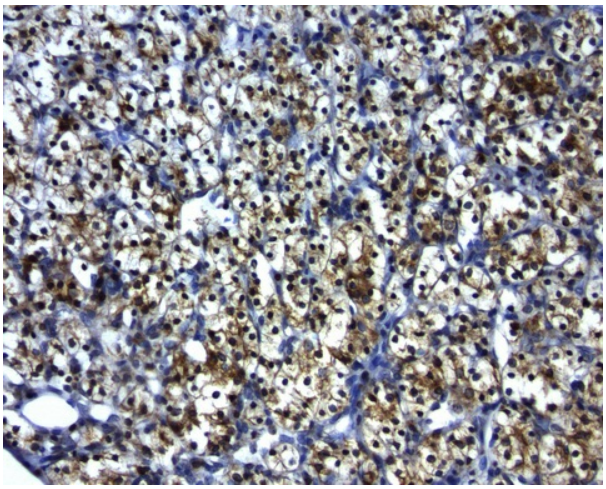
Immunohistochemical staining of paraffin-embedded human tonsil within the normal limits using anti-BCL2 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800117] was diluted 1:500 and detection was done with HRP secondary and DAB chromogen. Positive cells have nuclear, cytoplasmic, and membraneous stain.



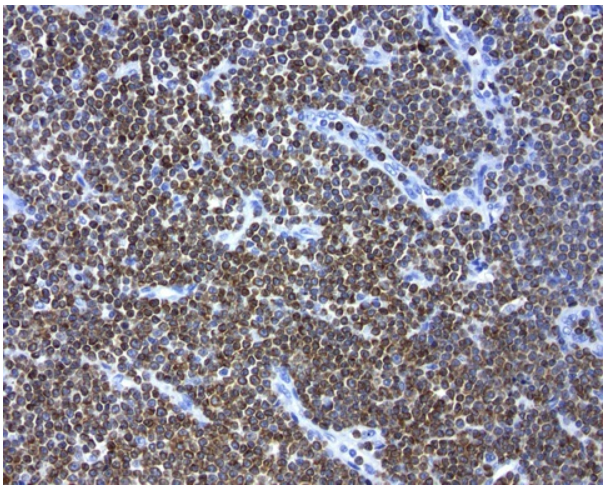
Immunohistochemical staining of FFPE tonsil with anti-BCL2 [UM800117] using heat-induced epitope retrieval HIER at 120°C for 3min with EDTA buffer pH8, BCL2 mouse monoclonal antibody, clone UMAB225 was used at 1:500. Strong positive cytoplasmic and membrane staining is shown mainly in the non-germinal center.



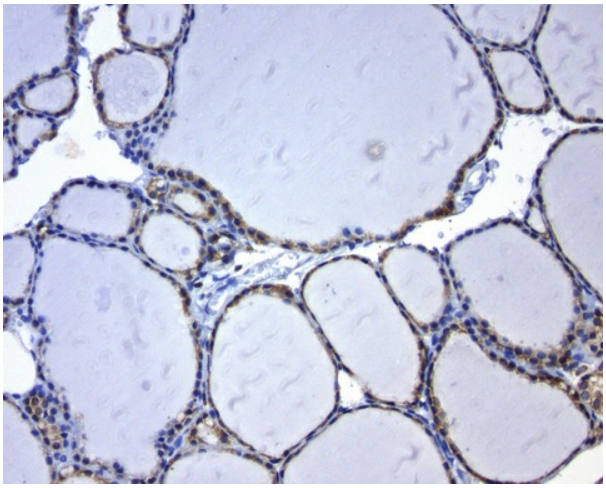
Immunohistochemical staining of paraffin-embedded human breast cancer using mouse anti-BCL2 clone UMAB225 ([UM800117]) at 1:500 with Polink2 Broad HRP DAB detection kit; pretreatment of tissue prior to stain with heat-induced epitope retrieval with EDTA pH 8.0 buffer using pressure chamber for 3 minutes at 110C is required for optimal staining. Shown here strong cytoplamic tumor cells.



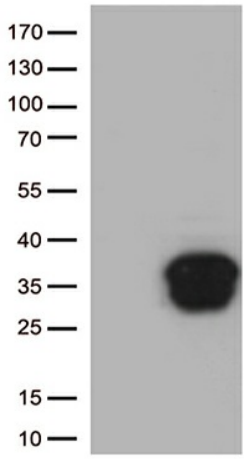
Immunohistochemical staining of paraffin-embedded human renal cell carcinoma using mouse anti-BCL2 clone UMAB225 ([UM800117]) at 1:500 with Polink2 Broad HRP DAB detection kit; pretreatment of tissue prior to stain with heat-induced epitope retrieval with EDTA pH 8.0 buffer using pressure chamber for 3 minutes at 110C is required for optimal staining. Shown here strong cytoplamic tumor cells.



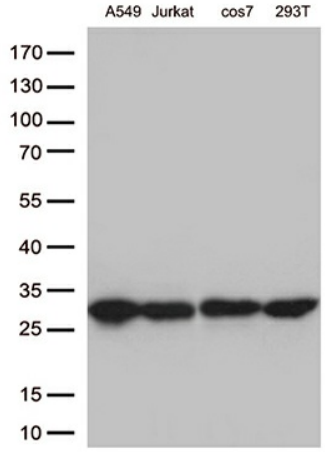
Immunohistochemical staining of paraffin-embedded lymphoma using mouse anti-BCL2 clone UMAB225 ([UM800117]) at 1:500 with Polink2 Broad HRP DAB detection kit; pretreatment of tissue prior to stain with heat-induced epitope retrieval with EDTA pH 8.0 buffer using pressure chamber for 3 minutes at 110C is required for optimal staining. Shown here strong cytoplamic tumor cells.



Immunohistochemical staining of paraffin-embedded normal thyroid using mouse anti-BCL2 clone UMAB225 ([UM800111]) at 1:500 with Polink2 Broad HRP DAB detection kit; pretreatment of tissue prior to stain with heat-induced epitope retrieval with EDTA pH 8.0 buffer using pressure chamber for 3 minutes at 110C is required for optimal staining. Cells exhibit cytoplamic staining.




HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BCL2 ([RC204498], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BCL2 (1:500).




Western blot analysis of extracts (35ug) from 4 cell lines lysates by using anti-BCL2 monoclonal antibody (1:500).