

For Research Use Only

# human BCL2 Polyclonal antibody

Catalog Number: 12789-1-AP

Featured Product

2724 Publications



## Basic Information

### Catalog Number:

12789-1-AP

### Concentration:

900 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3508

### GenBank Accession Number:

BC027258

### GeneID (NCBI):

596

### UNIPROT ID:

P10415

### Full Name:

B-cell CLL/lymphoma 2

### Calculated MW:

26 kDa

### Observed MW:

25-30 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:10000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:200-1:1000

IF/ICC: 1:50-1:500

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human

### Cited Species:

human, rabbit, chicken, zebrafish, hamster, sheep, goat, fish

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** A431 cells, HepG2 cells, Jurkat cells, HEK-293 cells, HL-60 cells, U-251 cells, U-937 cells, MCF-7 cells, U2OS cells

**IP:** HL-60 cells, HepG2 cells, MCF-7 cells

**IHC:** human tonsillitis tissue, human lymphoma tissue

**IF/ICC:** Jurkat cells,

**FC (Intra):** Jurkat cells, HeLa cells

## Background Information

BCL2 belongs to the Bcl-2 family. It suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells. BCL2 regulates cell death by controlling the mitochondrial membrane permeability (PMID: 10365962). It appears to function in a feedback loop system with caspases. BCL2 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) (PMID: 10444588). This antibody is not suitable for rat and mouse species.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xin Shen	36184549	Int Heart J	WB
Yong Zhu	34660260	Front Oncol	WB
Ling Guo	34867437	Front Physiol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

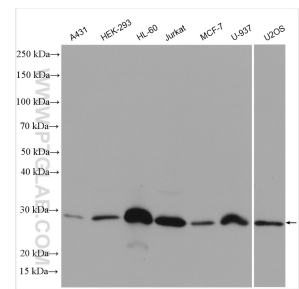
T: 4006900926

E: Proteintech-CN@ptglab.com

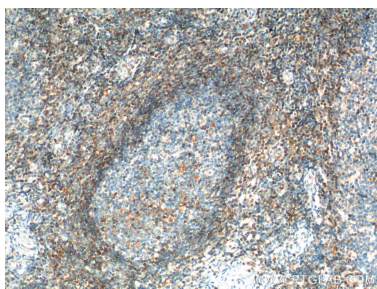
W: ptgcn.com

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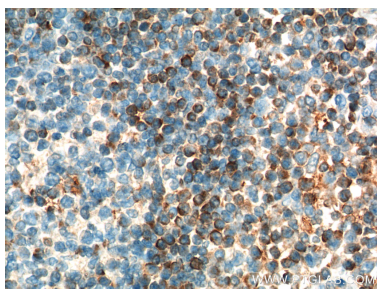
Selected Validation Data



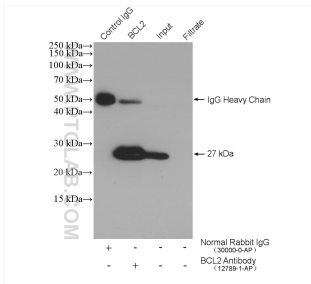
A431 cells were subjected to SDS PAGE followed by western blot with 12789-1-AP (BCL2 antibody) at dilution of 1:9000 incubated at room temperature for 1.5 hours.



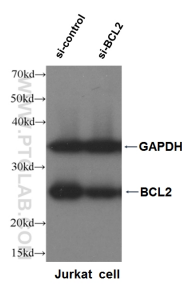
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12789-1-AP (BCL2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



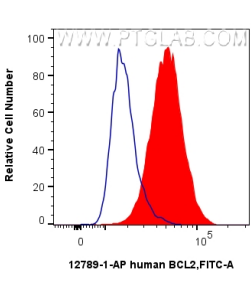
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12789-1-AP (BCL2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



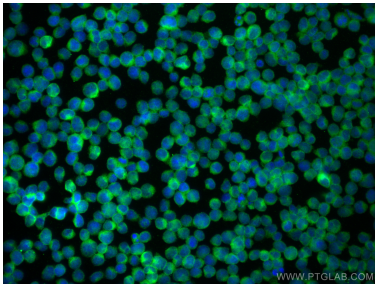
IP result of anti-human BCL2 (IP:12789-1-AP, 4ug; Detection:12789-1-AP 1:1000) with HL-60 cells lysate 4000 ug.



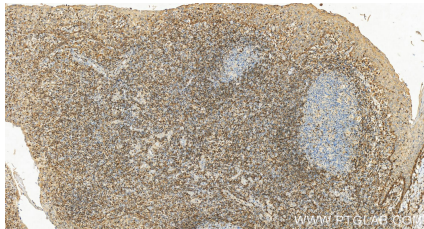
WB result of BCL2 (12789-1-AP, 1:1000) with si-Control and si-BCL2 transfected Jurkat cells.



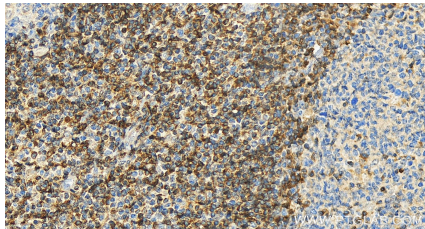
1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.25 ug human BCL2 Polyclonal antibody (12789-1-AP) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (30000-O-AP, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using human BCL2 antibody (12789-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12789-1-AP (human BCL2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12789-1-AP (human BCL2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).