

For Research Use Only

# human BCL2 Polyclonal antibody

Catalog Number:12789-1-AP

Featured Product

2569 Publications



## Basic Information

**Catalog Number:**

12789-1-AP

**Size:**

150ul , Concentration: 500 ug/ml by Nanodrop;

**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

## Applications

**Tested Applications:**

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

**Cited Applications:**

WB, IHC, IF, IP, CoIP, ChIP

**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,

## 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

\*\*\* 20ul sizes contain 0.1% BSA

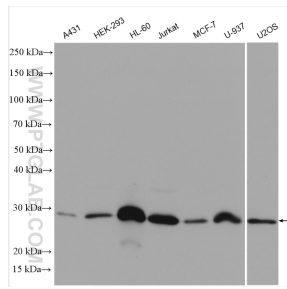
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

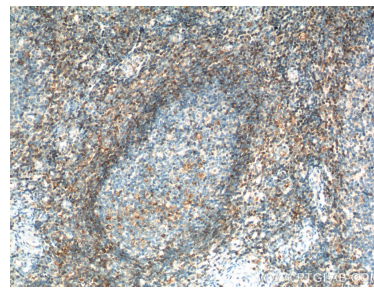
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

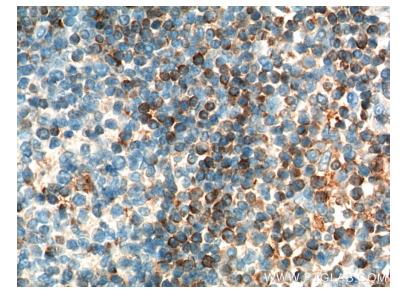
## Selected Validation Data



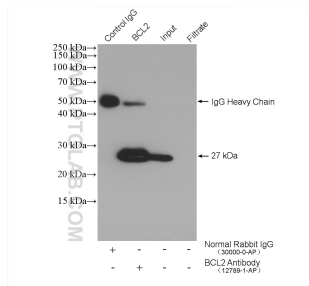
A431 cells were subjected to SDS PAGE followed by western blot with 12789-1-AP (BCL2 antibody) at dilution of 1:9000 incubated at room temperature for 1.5 hours.



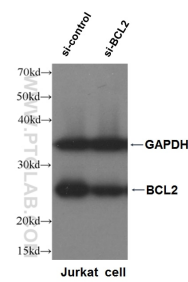
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12789-1-AP (BCL2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



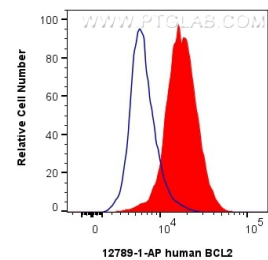
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12789-1-AP (BCL2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



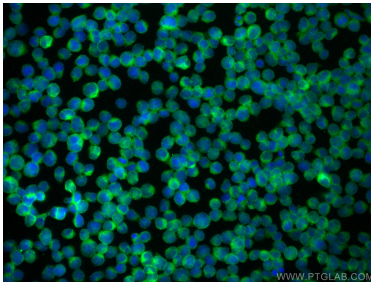
IP result of anti-human BCL2 (IP:12789-1-AP, 4ug; Detection:12789-1-AP 1:1000) with HL-60 cells lysate 4000 ug.



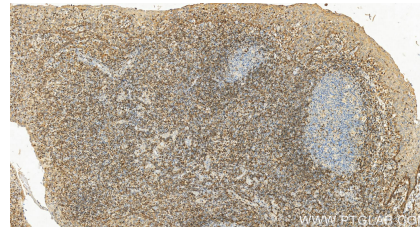
WB result of BCL2 (12789-1-AP, 1:1000) with si-Control and si-BCL2 transfected Jurkat cells.



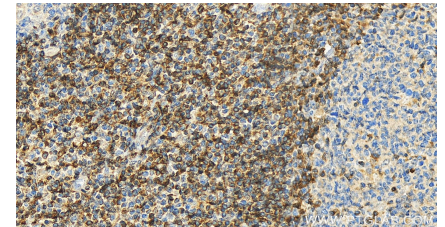
$1 \times 10^6$  HeLa cells were intracellularly stained with 0.8 ug human BCL2 Polyclonal antibody (12789-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.8 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized 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).