

For Research Use Only

human BCL2 Polyclonal antibody

Catalog Number: 12789-1-AP

Featured Product

2624 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

FC (Intra): 0.80 ug per 10⁶ 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): 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

*** 20ul sizes contain 0.1%BSA

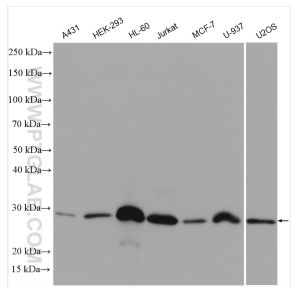
For technical support and original validation data for this product please contact:

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

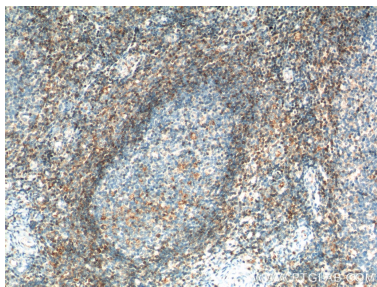
E: proteintech@ptglab.com
W: ptglab.com

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

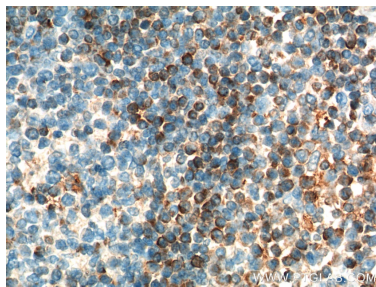
Selected Validation Data



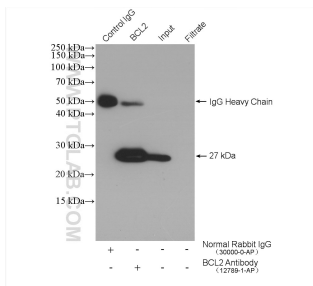
A431 cells were subjected to SDS PAGE followed by western blot with 12789-1-AP (BCL2 antibody) at dilution of 1:9000 incubated at room temperature for 1.5 hours.



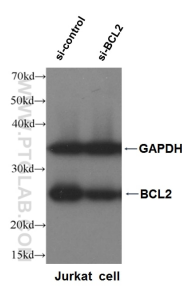
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12789-1-AP (BCL2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



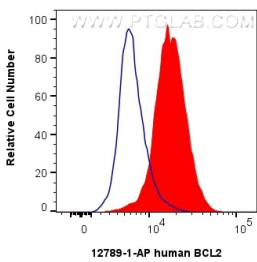
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12789-1-AP (BCL2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



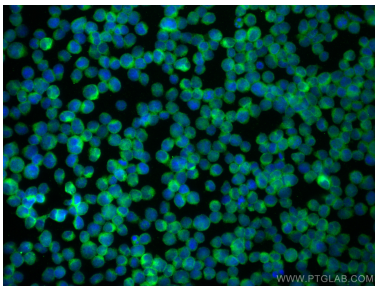
IP result of anti-human BCL2 (IP:12789-1-AP, 4ug; Detection:12789-1-AP 1:1000) with HL-60 cells lysate 4000 ug.



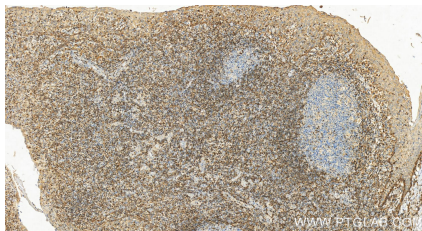
WB result of BCL2 (12789-1-AP, 1:1000) with si-Control and si-BCL2 transfected Jurkat cells.



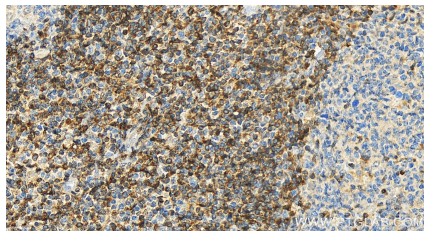
1x10⁶ HeLa cells were intracellularly stained with 0.8 ug human BCL2 Polyclonal antibody (12789-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.8 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with 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).