

For Research Use Only

# BAX Polyclonal antibody

Catalog Number: 50599-2-Ig

Featured Product

3641 Publications



## Basic Information

Catalog Number:

50599-2-Ig

Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0576

GenBank Accession Number:

BC014175

GeneID (NCBI):

581

UNIPROT ID:

Q07812

Full Name:

BCL2-associated X protein

Calculated MW:

21 kDa

Observed MW:

21 kDa

Purification Method:

Protein A purification

Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:1000-1:4000

## Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IP, CoIP, ChIP, ELISA

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, rabbit, monkey, chicken, zebrafish, hamster, sheep, goat

**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**: HEK-293 cells, COLO 320 cells, HeLa cells, HT-1080 cells, PC-12 cells, NIH/3T3 cells, Raji cells, mouse kidney tissue, rat kidney tissue, rat colon tissue, rat lung tissue, RAW 264.7 cells, mouse heart tissue, rat brain tissue

**IP**: Raji cells, mouse heart tissue

**IHC**: mouse lung tissue, mouse kidney tissue

## Background Information

BAX, also named as BCL2L4, is a pro-apoptotic member of the Bcl-2 protein family, which plays a pivotal role in controlling cell life and death. Bax largely localizes to the cytoplasm of healthy cells, but accumulates on the outer mitochondrial membrane upon apoptosis induction (PMID: 9108035). BAX can commit a cell to apoptosis by translocation from the cytosol to the mitochondria and permeabilization of the outer mitochondrial membrane, which leads to the release of cytochrome c from mitochondria (PMID: 21763611). The expression of BAX is upregulated by the tumor suppressor protein p53, and BAX has been shown to be involved in p53-mediated apoptosis (PMID: 8183579).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoxuan Zhai	36184541	Int Heart J	WB
Xin Shen	36184549	Int Heart J	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

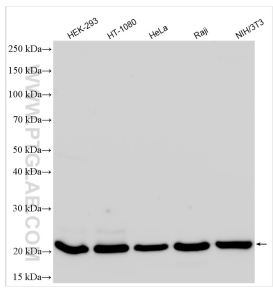
For technical support and original validation data for this product please contact:

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

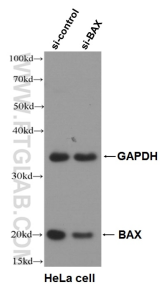
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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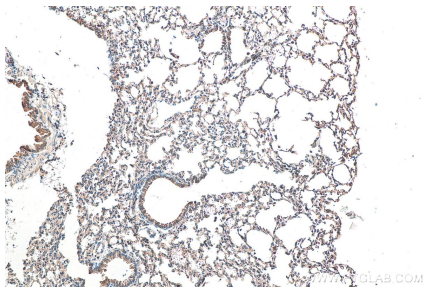
Selected Validation Data



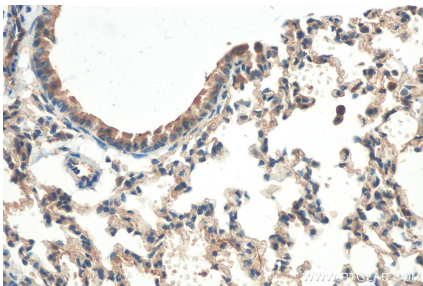
Various lysates were subjected to SDS PAGE followed by western blot with 50599-2-Ig (BAX antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



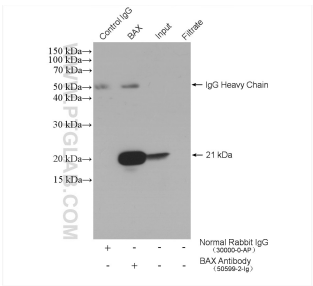
WB result of BAX antibody (50599-2-Ig, 1:5000) with si-Control and si-BAX transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 50599-2-Ig (BAX antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 50599-2-Ig (BAX antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-BAX (IP:50599-2-Ig, 4ug; Detection:50599-2-Ig 1:1000) with Raji cells lysate 3160 ug.