

For Research Use Only

# BAX Monoclonal antibody

Catalog Number: 60267-1-Ig

Featured Product

367 Publications



## Basic Information

### Catalog Number:

60267-1-Ig

### Size:

150ul, Concentration: 1000 µg/ml by Nanodrop;

### Source:

Mouse

### Isotype:

IgG2b

### Immunogen Catalog Number:

AG21068

### 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

### CloneNo.:

4G5E8

### Recommended Dilutions:

WB 1:5000-1:20000

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

IHC 1:500-1:2000

## Applications

### Tested Applications:

WB, IP, FC, IHC, ELISA

### Cited Applications:

WB, IF, IHC, ICC, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse, pig, canine

**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 : HeLa cells, human testis tissue, HepG2 cells, HEK-293 cells, COLO 320 cells, PC-12 cells, ROS1728 cells, Neuro-2a cells

IP : THP-1 cells,

IHC : human liver cancer 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
Ji Xing	36230734	Cancers (Basel)	WB
Qiu-Lin Yan	36209565	Bioorg Chem	WB
Fei Yu	36175965	Chin Med	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

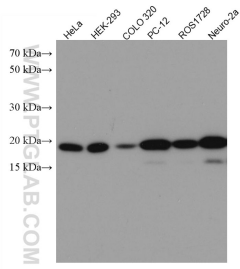
For technical support and original validation data for this product please contact:

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

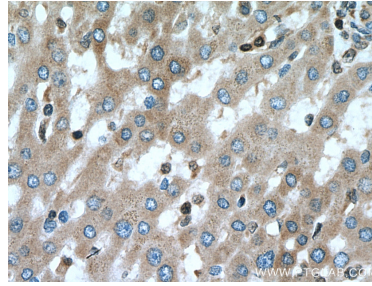
E: proteintech@ptglab.com  
W: ptglab.com

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

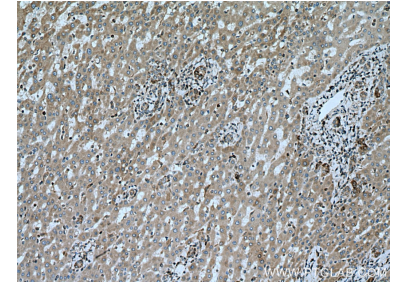
## Selected Validation Data



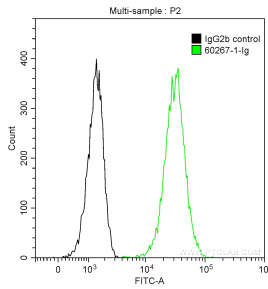
Various lysates were subjected to SDS PAGE followed by western blot with 60267-1-Ig (BAX antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



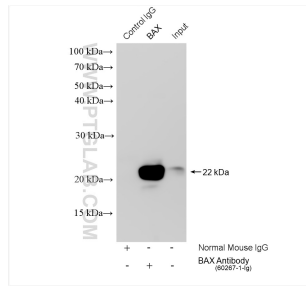
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60267-1-Ig (BAX antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60267-1-Ig (BAX antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> MCF-7 cells were stained with 0.2 ug Anti-Human BAX (60267-1-Ig, Clone:4G5E8) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.



IP result of anti-BAX (IP:60267-1-Ig, 4ug; Detection:60267-1-Ig 1:6000) with THP-1 cells lysate 1520 ug.