For Research Use Only

BAX Monoclonal antibody

Catalog Number:60267-1-Ig Featured Product 358 Publications

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Basic Information

Catalog Number:
60267-1-Ig

Size:
1000 μg/ml

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 ug for 1.0-3.0 mg of total protein lysate
IHC 1:500-1:2000

Applications

Tested Applications:
FC, IHC, IP, WB, ELISA

Cited Applications:
CoIP, ICC, IF, IHC, WB

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

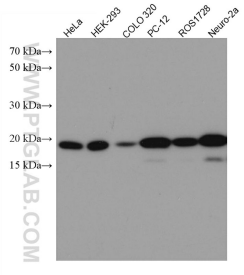
Author	Pubmed ID	Journal	Application
Ji Xing	36230734	Cancers (Basel)	WB
Qiu-Lin Yan	36209565	Bioorg Chem	WB
Fei Yu	36175965	Chin Med	WB

Storage

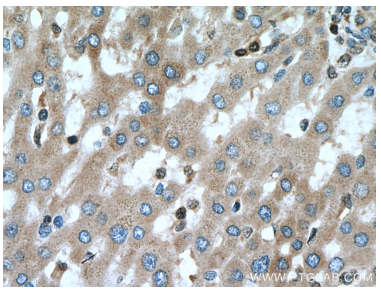
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

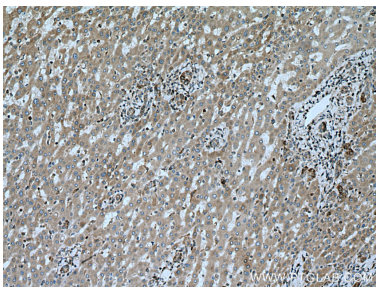
Selected Validation Data



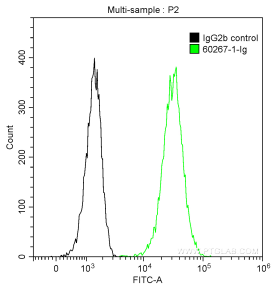
Various lysates were subjected to SDS PAGE followed by western blot with 60267-1-Ig (BAX antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



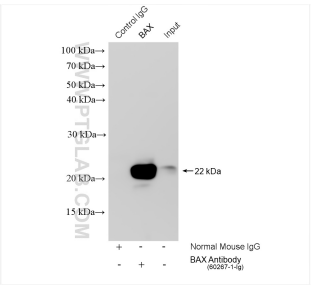
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60267-1-Ig (BAX antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10^6 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.