For Research Use Only

BAX Polyclonal antibody

Catalog Number:50599-2-Ig Featured Product 5251 Publications

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Basic Information

Catalog Number:
50599-2-Ig

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:
Antigen affinity purification

Recommended Dilutions:
WB: 1:20000-1:100000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:1000-1:4000
IF/ICC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, IHC, IP, CoIP, ELISA

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, rabbit, monkey, sheep, goat, deer

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, 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, BALB/3T3 clone A31, RAW 264.7 cells, rat brain tissue, mouse heart tissue

IP : Raji cells, mouse heart tissue

IHC : mouse lung tissue, mouse kidney tissue

IF/ICC : MCF-7 cells,

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

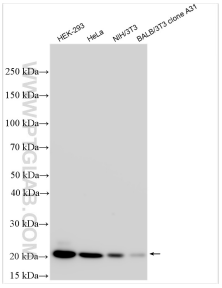
Storage

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

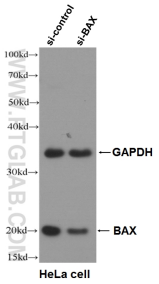
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

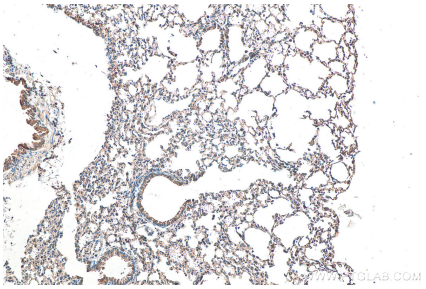
Selected Validation Data



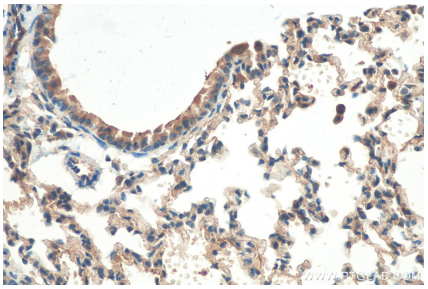
Various lysates were subjected to SDS PAGE followed by western blot with 50599-2-Ig (BAX antibody) at dilution of 1:60000 incubated at room temperature for 1.5 hours.



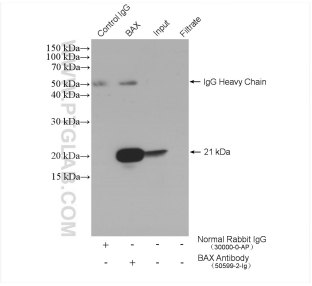
WB result of BAX antibody (50599-2-Ig, 1:5000) with si-Control and si-BAX transfected HeLa cells.



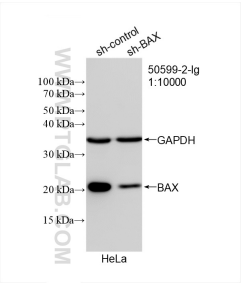
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 50599-2-Ig (BAX antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



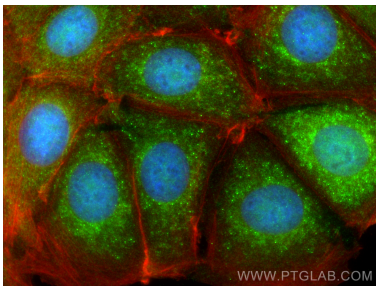
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 50599-2-Ig (BAX antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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



WB result of BAX antibody (50599-2-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BAX transfected HeLa cells.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using BAX antibody (50599-2-Ig) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).