

Bax (PT0301R) PT™ Rabbit mAb

CatalogNo: YM8175 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Chicken, Pig

Applications

- WB, IHC, IF, IP, ELISA

MW

- 21kD (Calculated)
- 21kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:2000-1:5000**WB 1:1000-1:5000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200,**

Basic Information

Clonality Monoclonal**Clone Number** PT0301R

Immunogen Information

Specificity Endogenous

| Target Information

Gene name BAX

Protein Name Apoptosis regulator BAX

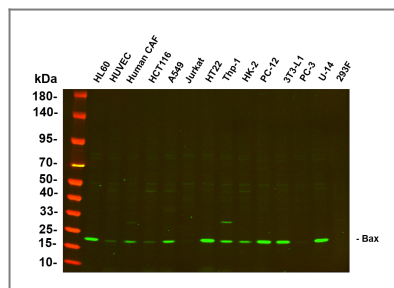
Organism	Gene ID	UniProt ID
Human	581 ;	Q07812 ;
Mouse	12028 ;	Q07813 ;
Rat		Q63690 ;

Cellular Localization Cytoplasm, Nuclear

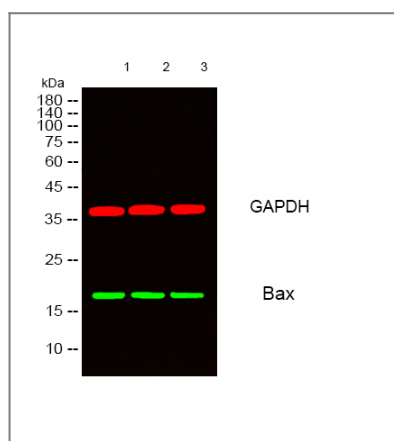
Tissue specificity Expressed in a wide variety of tissues. Isoform Psi is found in glial tumors. Isoform Alpha is expressed in spleen, breast, ovary, testis, colon and brain, and at low levels in skin and lung. Isoform Sigma is expressed in spleen, breast, ovary, testis, lung, colon, brain and at low levels in skin. Isoform Alpha and isoform Sigma are expressed in pro-myelocytic leukemia, histiocytic lymphoma, Burkitt's lymphoma, T-cell lymphoma, lymphoblastic leukemia, breast adenocarcinoma, ovary adenocarcinoma, prostate carcinoma, prostate adenocarcinoma, lung carcinoma, epidermoid carcinoma, small cell lung carcinoma and colon adenocarcinoma cell lines.

Function Disease:Defects in BAX are found in some cell lines from hematopoietic malignancies as T-cell acute lymphoblastic leukemia, Burkitt lymphoma, and plasmacytoma.,Domain:Intact BH3 motif is required by BIK, BID, BAK, BAD and BAX for their pro-apoptotic activity and for their interaction with anti-apoptotic members of the Bcl-2 family.,Function:Accelerates programmed cell death by binding to, and antagonizing the apoptosis repressor BCL2 or its adenovirus homolog E1B 19k protein. Induces the release of cytochrome c, activation of CASP3, and thereby apoptosis.,similarity:Belongs to the Bcl-2 family.,subcellular location:Colocalizes with 14-3-3 proteins in the cytoplasm. Under stress conditions, redistributes to the mitochondrion membrane through the release from JNK-phosphorylated 14-3-3 proteins.,subunit:Homodimer. Forms heterodimers with BCL2, E1B 19K protein, BCL2L1 isoform Bcl-X(L), MCL1 and A1. Interacts with SH3GLB1 and HN. Interacts with SFN and YWHAZ; the interaction occurs in the cytoplasm. Under stress conditions, JNK-mediated phosphorylation of SFN and YWHAZ, releases BAX to mitochondria. Isoform Sigma interacts with BCL2A1 and BCL2L1 isoform Bcl-X(L).,tissue specificity:Expressed in a wide variety of tissues. Isoform Psi is found in glial tumors. Isoform Alpha is expressed in spleen, breast, ovary, testis, colon and brain, and at low levels in skin and lung. Isoform Sigma is expressed in spleen, breast, ovary, testis, lung, colon, brain and at low levels in skin. Isoform Alpha and isoform Sigma are expressed in pro-myelocytic leukemia, histiocytic lymphoma, Burkitt's lymphoma, T-cell lymphoma, lymphoblastic leukemia, breast adenocarcinoma, ovary adenocarcinoma, prostate carcinoma, prostate adenocarcinoma, lung carcinoma, epidermoid carcinoma, small cell lung carcinoma and colon adenocarcinoma cell lines.,

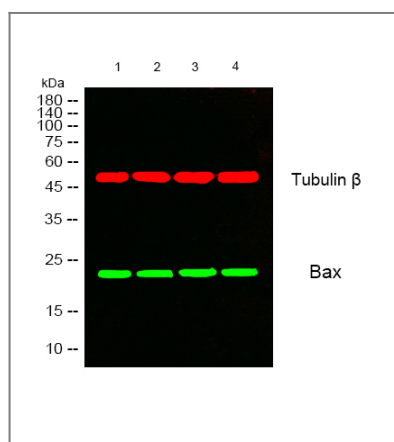
| Validation Data



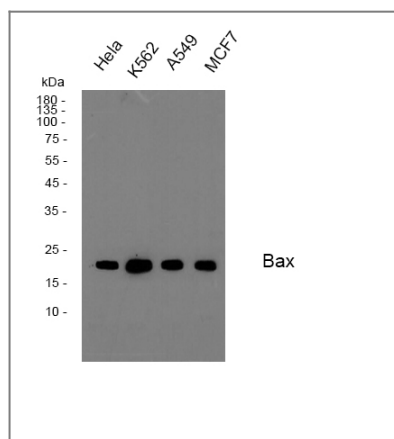
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:2500 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Lane14: 293F - HEK293 derivative, adapted for suspension culture Predicted band size: 21kDa Observed band size: 21kDa



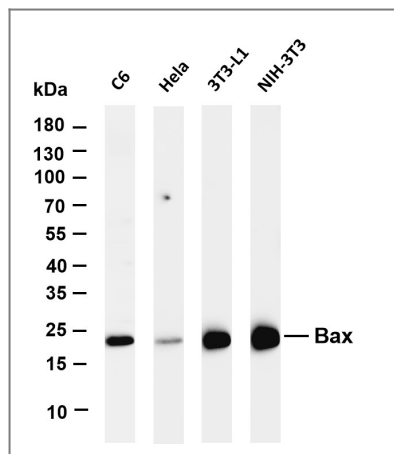
Western blot analysis of lysates from 1) HeLa, 2) MCF-7, 3) 3T3 cells, (Green) primary antibody was diluted at 1:1000, 4°C over night, secondary antibody (cat:RS23920) was diluted at 1:10000, 37°C 1 hour. (Red) GAPDH Monoclonal Antibody (2B8) (cat:YM3029) antibody was diluted at 1:5000 as loading control, 4°C over night, secondary antibody (cat:RS23710) was diluted at 1:10000, 37°C 1 hour.



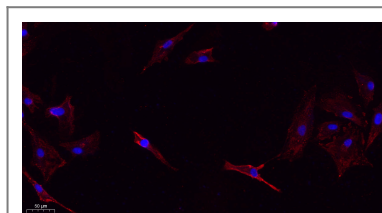
Western blot analysis of lysates from 1) HeLa, 2) MCF7, 3) k562, 4) A549 cells, (Green) primary antibody was diluted at 1:1000, 4°C over night, secondary antibody (cat:RS23920) was diluted at 1:10000, 37°C 1 hour. (Red) Tubulin β Monoclonal Antibody (5G3) (cat:YM3030) antibody was diluted at 1:5000 as loading control, 4°C over night, secondary antibody (cat:RS23710) was diluted at 1:10000, 37°C 1 hour.



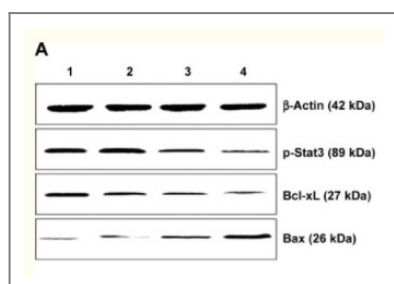
Western blot analysis of Bax Antibody, using HeLa, MCF7, k562, A549 cell, 4°C over night, secondary antibody (cat: RS0002) was diluted at 1:10000, 37°C 1 hour.



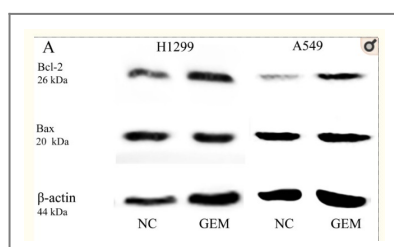
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Bax antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: HeLa Lane 3: 3T3-L1 Lane 4: NIH-3T3 Predicted band size: 21kDa Observed band size: 21kDa



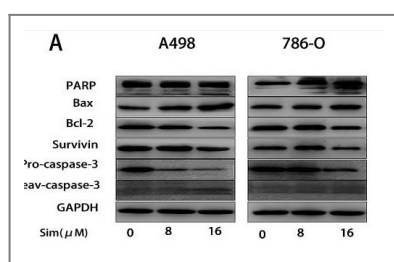
Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, DAPI(blue) 10min.



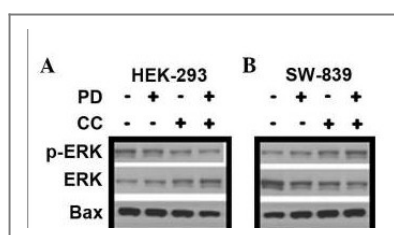
Tang, Qiusha, et al. "Combination of PEI-MnO₂, 5ZnO, 5Fe₂O₄ nanoparticles and pHsp 70-HSV-TK/GCV with magnet-induced heating for treatment of hepatoma." International journal of nanomedicine 10 (2015): 7129.



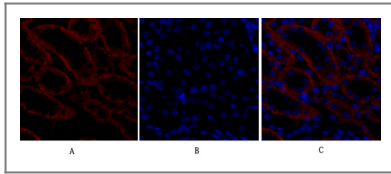
Hu, Bi-Dan, et al. "Specific inhibitor of Notch-3 enhances the sensitivity of NSCLC cells to gemcitabine." Oncology reports 40.1 (2018): 155-164.



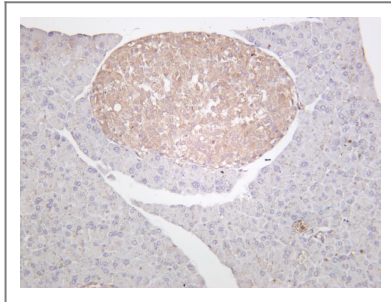
Fang, Zhiqing, et al. "Simvastatin inhibits renal cancer cell growth and metastasis via AKT/mTOR, ERK and JAK2/STAT3 pathway." PloS one 8.5 (2013): e62823.



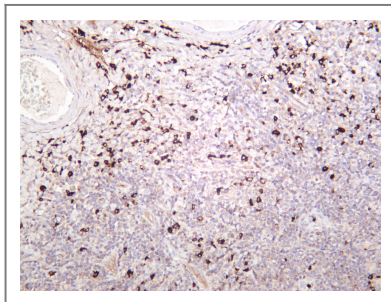
Chen, Xiao-Meng, et al. "Chelerythrine chloride induces apoptosis in renal cancer HEK-293 and SW-839 cell lines." Oncology letters 11.6 (2016): 3917-3924.



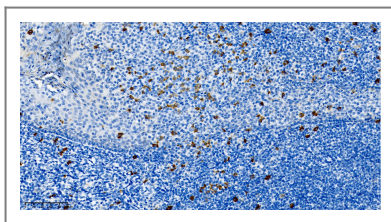
Immunofluorescence analysis of mouse-kidney tissue. 1, Bax Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



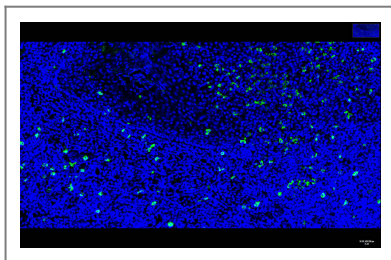
Mouse pancreas was stained with anti-Bax rabbit antibody



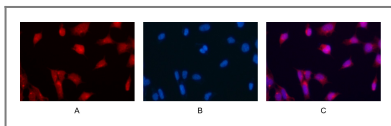
Human tonsil was stained with anti-Bax rabbit antibody



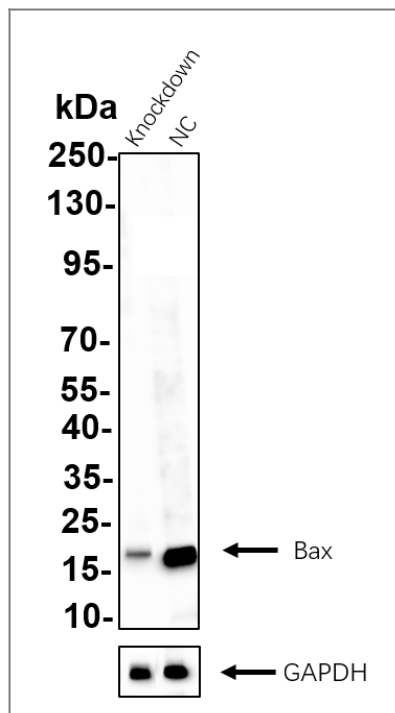
Human tonsils were stained with anti-Bax Rabbit antibody



Human tonsils were stained with anti-Bax Rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: Bax antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Western blot analysis of lysates from HT22 WT and knockdown cell. Cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with Bax (PT0301R) rabbit mAb. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Contact information

Orders: order@immunoway.com
 Support: tech@immunoway.com
 Telephone: 877-594-3616 (Toll Free), 408-747-0185
 Website: <http://www.immunoway.com>
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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