

**Bax (PT0301R) PT® Rabbit mAb**

<b>Catalog No :</b>	YM8175
<b>Reactivity :</b>	Human; Mouse; Rat;
<b>Applications :</b>	WB;IHC;IF;IP;ELISA
<b>Target :</b>	Bax
<b>Fields :</b>	>>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>Platinum drug resistance;>>Sphingolipid signaling pathway;>>p53 signaling pathway;>>Protein processing in endoplasmic reticulum;>>Apoptosis;>>Longevity regulating pathway;>>Apoptosis - multiple species;>>Necroptosis;>>Neurotrophin signaling pathway;>>Non-alcoholic fatty liver disease;>>AGE-RAGE signaling pathway in diabetic complications;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Salmonella infection;>>Tuberculosis;>>Hepatitis C;>>Hepatitis B;>>Measles;>>Human cytomegalovirus infection;>>Influenza A;>>Human papillomavirus infection;>>Human T-cell leukemia virus 1 infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Human immunodeficiency virus 1 infection;>>Pathways in cancer;>>Transcriptional
<b>Gene Name :</b>	BAX
<b>Protein Name :</b>	Apoptosis regulator BAX
<b>Human Gene Id :</b>	581
<b>Human Swiss Prot No :</b>	Q07812
<b>Mouse Gene Id :</b>	12028
<b>Mouse Swiss Prot No :</b>	Q07813
<b>Rat Swiss Prot No :</b>	Q63690
<b>Specificity :</b>	endogenous

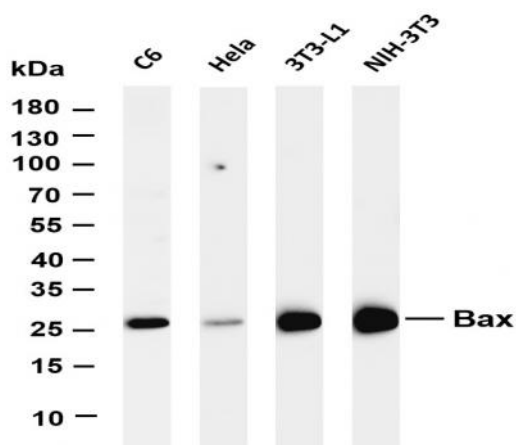
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<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Monoclonal, rabbit, IgG, Kappa
<b>Dilution :</b>	IHC 1:2000-1:5000 WB 1:1000-1:5000,IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200,
<b>Purification :</b>	Protein A
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	21kD
<b>Observed Band :</b>	21kD
<b>Background :</b>	<p>The protein encoded by BAX (BCL2 associated X, apoptosis regulator) belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein forms a heterodimer with BCL2, and functions as an apoptotic activator. This protein is reported to interact with, and increase the opening of, the mitochondrial voltage-dependent anion channel (VDAC), which leads to the loss in membrane potential and the release of cytochrome c. The expression of this gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis. Multiple alternatively spliced transcript variants, which encode different isoforms, have been reported for BAX.</p>
<b>Function :</b>	<p>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</p>
<b>Subcellular Location :</b>	Cytoplasm, Nuclear
<b>Expression :</b>	<p>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</p>

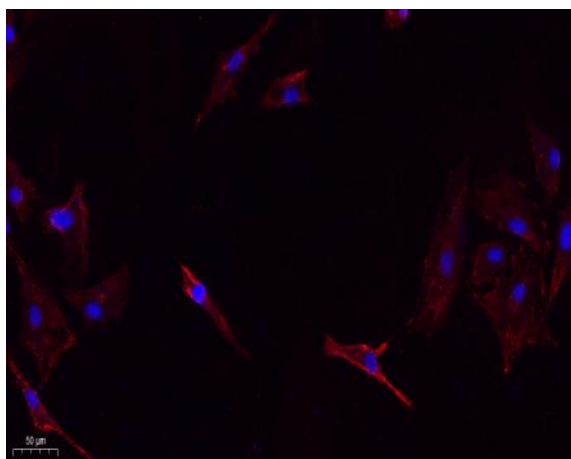
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adenocarcinoma, ovary adenocarcinoma, prostate carcinoma, prostate adenocarcinoma, lung carcinoma, epidermoid carcinoma, small cell lung carcinoma and colon adenocarcinoma cell lines.

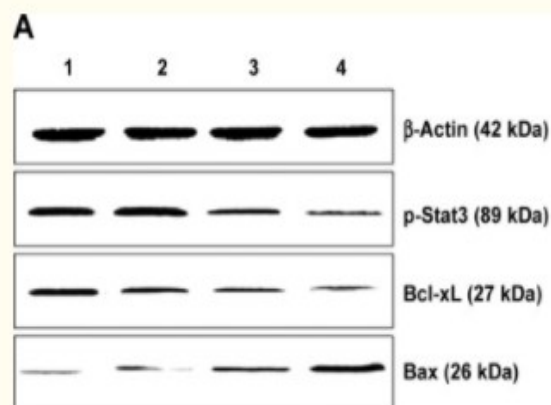
## Products Images



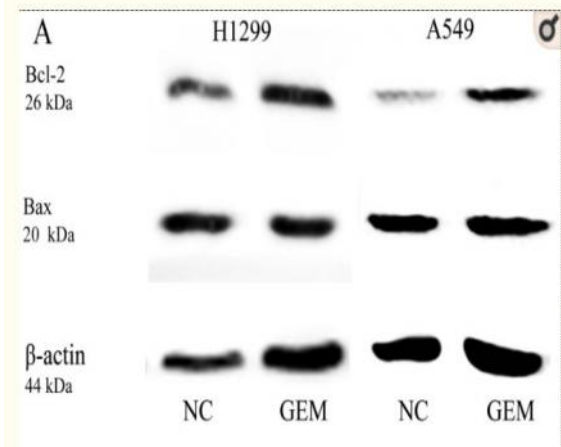
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Bax (PT0301R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: HeLa Lane 3: 3T3-L1 Lane 4: NIH-3T3 Predicted band size: 21kDa Observed band size: 21kDa



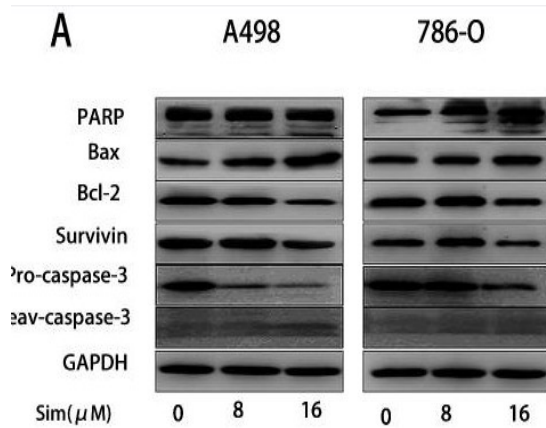
Immunofluorescence analysis of A549. 1, primary Antibody (red) was diluted at 1:200 (4 °C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min.



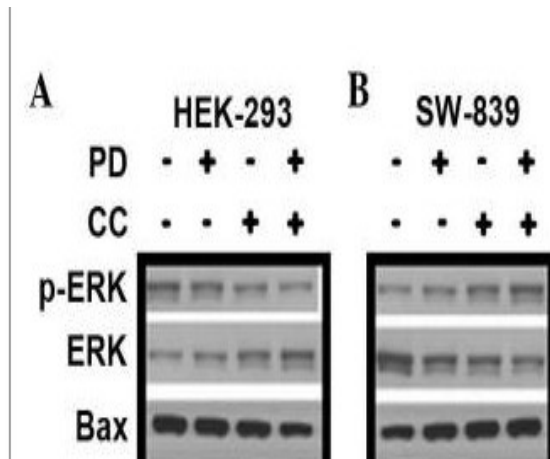
Tang, Qiusua, et al. "Combination of PEI-MnO<sub>2</sub>, ZnO, Fe<sub>2</sub>O<sub>4</sub> nanoparticles and pHsp 70-HSV-TK/GCV with magnet-induced heating for treatment of hepatoma." International journal of nanomedicine 10 (2015): 7129.



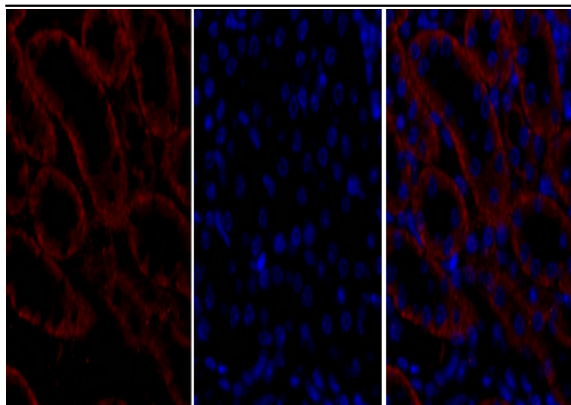
Hu, Bi-Dan, et al. "Specific inhibitor of Notch-3 enhances the sensitivity of NSCLC cells to gemcitabine." *Oncology reports* 40.1 (2018): 155-164.



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.

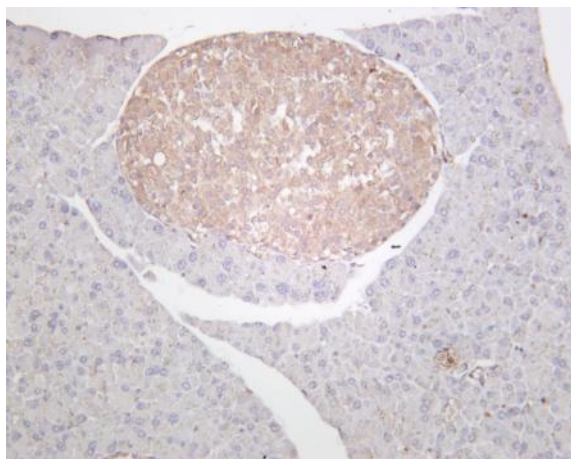


A

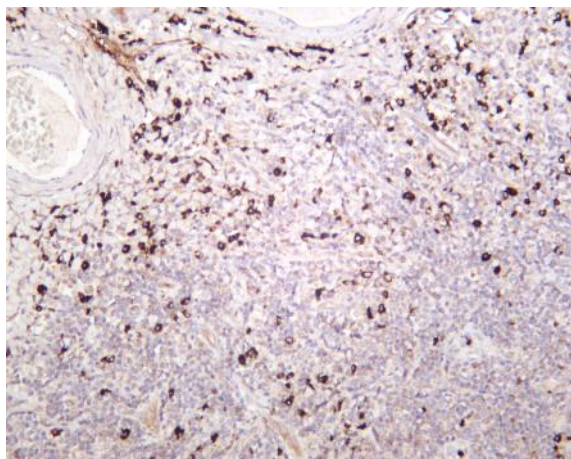
B

C

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 (PT0301R) rabbit antibody



Human tonsil was stained with anti-Bax (PT0301R) rabbit antibody