[KD Validated] Anti-BAX Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021805

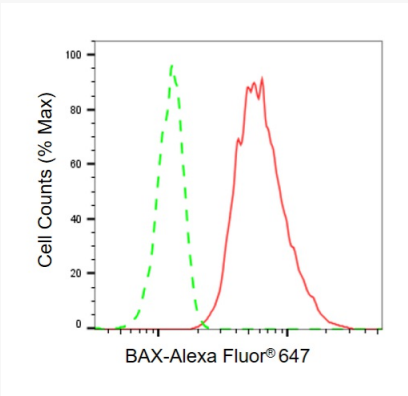
Product Information

Application	WB, FC, IF (Cell)/ICC, IHC-P/IF (Tissue-P)
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000; IHC-P 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	48K59O83
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Bax
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-BAX Rabbit mAb [48K59O83] is for research use only and not for use in diagnostic or therapeutic procedures.

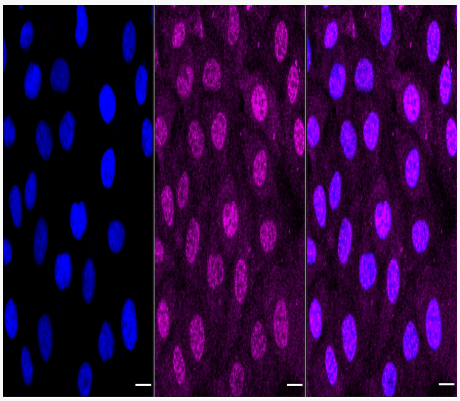
Protein Information

Synonyms	BAX; BCL2 Associated X, Apoptosis Regulator; BCL2L4; BCL2 Associated X Protein; Apoptosis Regulator BAX; Bcl-2-Like Protein 4; Bcl2-L-4; BCL2-Associated X Protein Omega; BCL2-Associated X Protein; Baxdelta2G9omega; Baxdelta2omega; Baxdelta2G9.
Calculated MW	Calculated MW: 21 kDa, Observed MW: 21 kDa
Uniprot ID	Q07812
Gene ID	581
Background	Bax is a key component for cellular induced apoptosis through mitochondrial stress. Upon apoptotic stimulation, Bax forms oligomers and translocates from the cytosol to the mitochondrial membrane. Through interactions with pore proteins on the mitochondrial membrane, Bax increases the membrane's permeability, which leads to the release of cytochrome c from mitochondria, activation of caspase-9 and initiation of the caspase activation pathway for apoptosis.

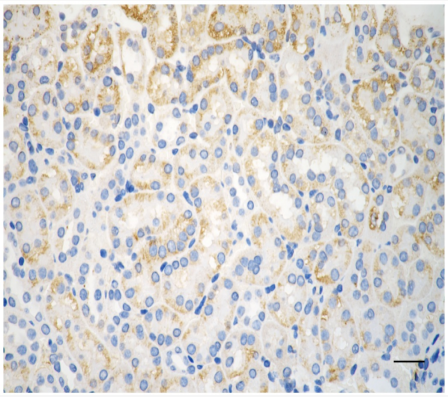
Validation Images



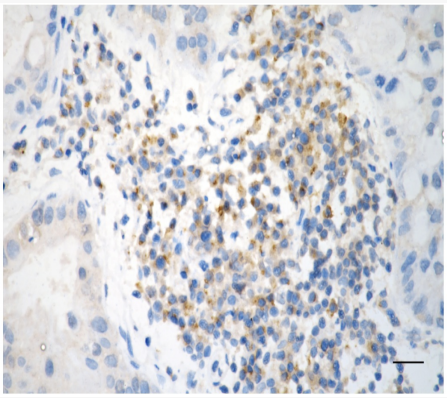
Flow cytometric analysis of BAX expression in HT-1080 cells using BAX antibody (R021805, 1:2,000). Green, isotype control; red, BAX.



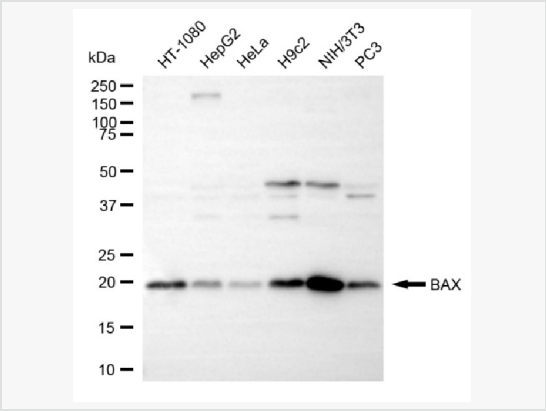
Immunocytochemical staining of HT-1080 cells with BAX antibody (R021805, 1:1,000). Nuclei were stained blue with DAPI; BAX was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



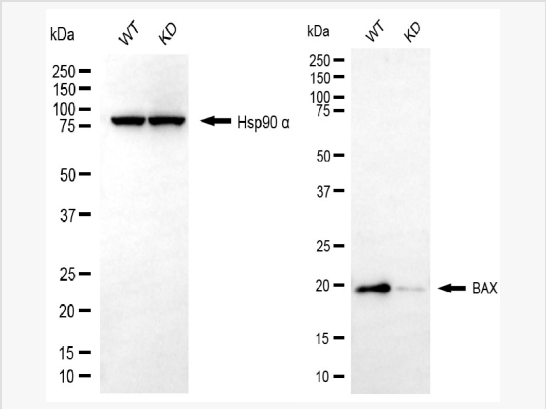
Immunohistochemistry was performed on paraffin-embedded mouse kidney using BAX antibody (R021805, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded human lung adenocarcinoma using BAX antibody (R021805, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Western blotting analysis using BAX antibody (R021805). Total cell lysates (10 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with BAX antibody (R021805, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using BAX antibody (R021805). BAX expression in wild type (WT) and BAX knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with BAX antibody (R021805, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.