

Datasheet for ABIN388094
anti-BAX antibody (AA 41-76)

5 Images

8 Publications

[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	BAX
Binding Specificity:	AA 41-76
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BAX antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	This Bax antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 41-76 amino acids from human Bax.
Clone:	RB0952
Isotype:	Ig Fraction
Predicted Reactivity:	B
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	BAX
Alternative Name:	Bax (BAX Products)

Target Details

Background:	Bax 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. Bax 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 the Bax gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis.
Molecular Weight:	21184
Gene ID:	581
NCBI Accession:	NP_004315 , NP_620116 , NP_620118 , NP_620119
UniProt:	Q07812
Pathways:	p53 Signaling , PI3K-Akt Signaling , Apoptosis , Caspase Cascade in Apoptosis , Positive Regulation of Endopeptidase Activity , Unfolded Protein Response

Application Details

Application Notes:	WB: 1:2000. WB: 1:2000. WB: 1:2000. WB: 1:2000. FC: 1:25
Restrictions:	For Research Use only

Handling

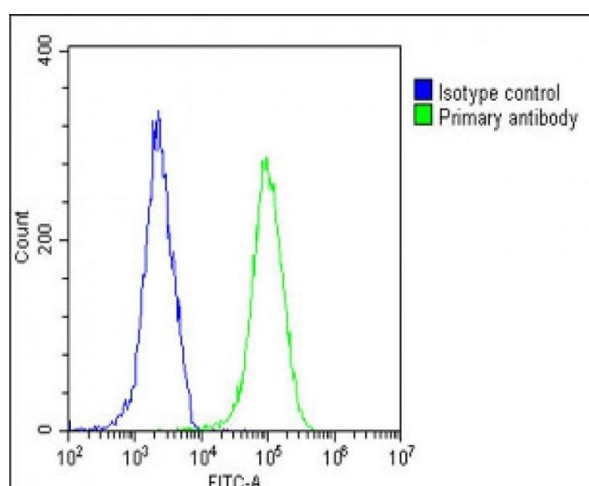
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

- Product cited in:
- Cui, Lin, Shi, Pan: "Hypoxic postconditioning attenuates apoptosis via inactivation of adenosine A2a receptor through NDRG3-Raf-ERK pathway." in: **Biochemical and biophysical research communications**, Vol. 491, Issue 2, pp. 277-284, (2017) ([PubMed](#)).
- Lin, Ma, Wang, Zhao, Liu, Pu, Hu, Hu, Shao: "Edaravone ameliorates compression-induced damage in rat nucleus pulposus cells." in: **Life sciences**, Vol. 189, pp. 76-83, (2017) ([PubMed](#)).
- Hu, Kuo, Senadi, Chang, Wang: "Photodynamic Therapy Using Indolines-Fused-Triazoles Induces Mitochondrial Apoptosis in Human Non-Melanoma BCC Cells." in: **Anticancer research**, Vol. 37, Issue 10, pp. 5499-5505, (2017) ([PubMed](#)).
- Wang, Wang, Li, Yang, Xing, Chen, Xu: "HMGB1 knockdown effectively inhibits the progression of rectal cancer by suppressing HMGB1 expression and promoting apoptosis of rectal cancer cells." in: **Molecular medicine reports**, Vol. 14, Issue 1, pp. 1026-32, (2016) ([PubMed](#)).
- Soni, Adebisi: "Early septic insult in neonatal pigs increases serum and urinary soluble Fas ligand and decreases kidney function without inducing significant renal apoptosis." in: **Renal failure**, pp. 1-12, (2016) ([PubMed](#)).

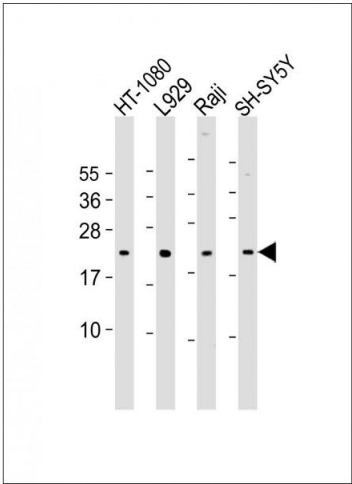
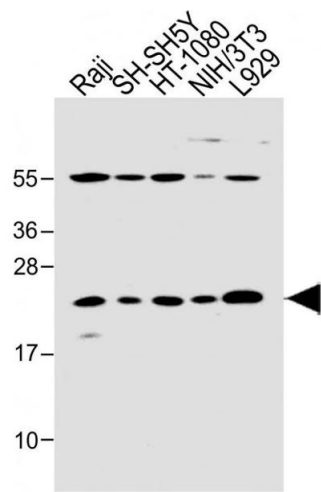
There are more publications referencing this product on: [Product page](#)

Images



Flow Cytometry

Image 1. Overlay histogram showing HeLa cells stained with (ABIN388094 and ABIN2837860)(green line). The cells were fixed with 2 % paraformaldehyde (10 min) and then permeabilized with 90 % methanol for 10 min. The cells were then incubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody ((ABIN388094 and ABIN2837860), 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG1 (1 μ



g/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Western Blotting

Image 2. All lanes : Anti-Bax Antibody (BH3 Domain Specific) at 1:2000 dilution Lane 1: Raji whole cell lysate Lane 2: SH-SY5Y whole cell lysate Lane 3: HT-1080 whole cell lysate Lane 4: NIH/3T3 whole cell lysate Lane 5: whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Western Blotting

Image 3. All lanes : Anti-Bax Antibody (BH3) at 1:2000 dilution Lane 1: HT-1080 whole cell lysate Lane 2: whole cell lysate Lane 3: Raji whole cell lysate Lane 4: SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN388094.