

Datasheet for ABIN3020683
anti-BAX antibody (AA 1-100)



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Overview

Quantity:	100 µL
Target:	BAX
Binding Specificity:	AA 1-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BAX antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Bax (NP_620116.1).
Sequence:	MDGSGEQPRG GGPTSSEQIM KTGALLQGF IQDRAGRMGG EAPELALDPV PQDASTKKLS ECLKRIGDEL DSNMELQRMI AAVDTDSPRE VFFRVAADMV
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	BAX
Alternative Name:	BAX (BAX Products)
Background:	The protein encoded by this gene 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 this gene.,BCL2L4,BAX,Cancer,Invasion and Metastasis,Signal Transduction,PI3K-Akt Signaling Pathway,MAPK-JNK Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Bcl 2 family,Mitochondrial Control of Apoptosis,Inhibition of Apoptosis,Endocrine & Metabolism,Mitochondrial metabolism,Warburg Effect,Neuroscience,Neurodegenerative Diseases,BAX
Molecular Weight:	4 kDa/12 kDa/15 kDa/18 kDa/19 kDa/21 kDa/24 kDa
Gene ID:	581
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,1:500 - 1:2000,IHC,1:50 - 1:100,IF,1:50 - 1:200,IP,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Zhao, Liu, Lin, Huang, He, Zhang, Dong, Wen, Rao, Liao, Shi: "The lncRNA MACC1-AS1 promotes gastric cancer cell metabolic plasticity via AMPK/Lin28 mediated mRNA stability of MACC1." in: **Molecular cancer**, Vol. 17, Issue 1, pp. 69, (2019) ([PubMed](#)).

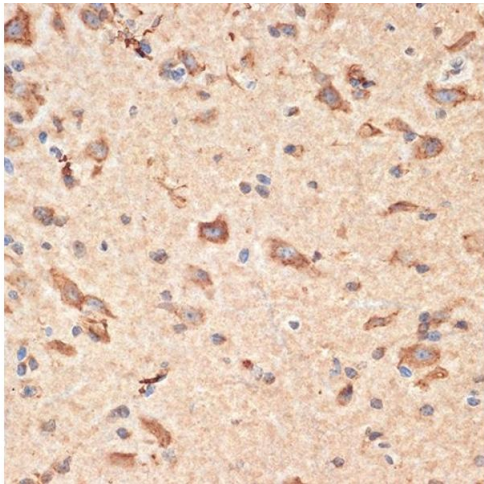
Bei, Xu, Lv, Yu, Xu, Che, Das, Tigges, Toxavidis, Ghiran, Shah, Li, Zhang, Das, Xiao: "Exercise-induced circulating extracellular vesicles protect against cardiac ischemia-reperfusion injury." in: **Basic research in cardiology**, Vol. 112, Issue 4, pp. 38, (2018) ([PubMed](#)).

Guo, Wang, Mou, Zhao, Yang, Zhu, Pei, Zhu, Wang, Xu, Zeng, Yao: "Pretreatment of Huaqihuang extractum protects against cisplatin-induced nephrotoxicity." in: **Scientific reports**, Vol. 8, Issue 1, pp. 7333, (2018) ([PubMed](#)).

Li, Zhou, Yang, Li, Zhang, Wang, Jiao: "SGK1 inhibits PM2.5-induced apoptosis and oxidative stress in human lung alveolar epithelial A549 cells." in: **Biochemical and biophysical research communications**, Vol. 496, Issue 4, pp. 1291-1295, (2018) ([PubMed](#)).

Gu, Liu, Li, Xie, Yao, Zhu, Xu, Dai, Zhong, Zhu, Ding, Zhou: "Serum-Derived Extracellular Vesicles Protect Against Acute Myocardial Infarction by Regulating miR-21/PDCD4 Signaling Pathway." in: **Frontiers in physiology**, Vol. 9, pp. 348, (2018) ([PubMed](#)).

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

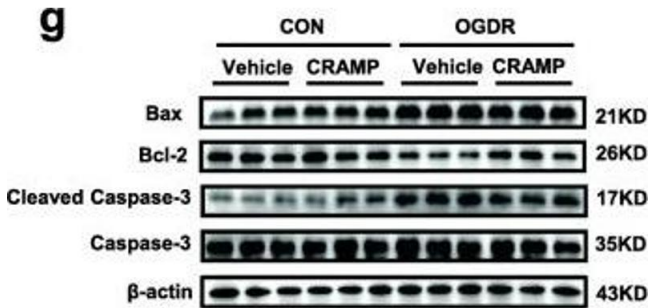


Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse spinal cord using [KO Validated] Bax Rabbit pAb (ABIN3020682, ABIN3020683, ABIN3020684, ABIN1512622 and ABIN6213665) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Western Blotting

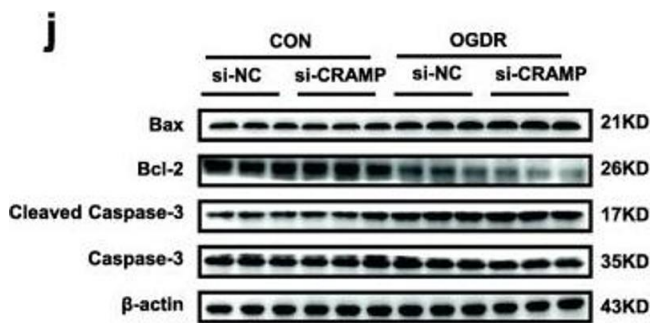
Image 2. CRAMP is reduced in cardiac ischemia/reperfusion (I/R) injury and prevents cardiomyocyte apoptosis. a The level of the mCRAMP peptide was measured by ELISA in the infarct, border, and remote zones of mouse I/R hearts compared to a sham group (n=5). b The level of the mCRAMP peptide was measured by ELISA in the serum from I/R mice compared to a sham group (n=5). c qRT-PCRs were performed to measure specific genes expressed in isolated neonatal mouse cardiac myocytes (NMCMs) and fibroblasts (NMCFs) (n=6). d The level of the mCRAMP peptide was measured by ELISA in NMCMs and NMCFs (n=9). e The level of the mCRAMP peptide was measured by ELISA in NMCMs treated with oxygen glucose deprivation/reperfusion (OGDR) (n=9). f, g The ratio of apoptosis after rCRAMP stimulation in OGDR-treated neonatal rat cardiomyocytes (NRCMs) as determined by TUNEL staining (f, n=4) and Western blot (g, n=6). Immunofluorescent staining for α -actinin was used to label cardiomyocytes. h The level of rCRAMP mRNA in NRCMs after transfection with siRNAs targeting rCRAMP (n=3). i, j The ratio of apoptosis after transfection with rCRAMP siRNA in OGDR-treated NRCMs as determined by TUNEL staining (i, n=4) and Western blot (j, n=6).



Immunofluorescent staining for α -actinin was used to label cardiomyocytes. Scale bar=100 μ m (f, i). Data were expressed as mean $\pm$ SD. *P<0.05, **P<0.01, ***P<0.001 - figure provided by CiteAb. Source: PMID30782145

Western Blotting

Image 3. CRAMP is reduced in cardiac ischemia/reperfusion (I/R) injury and prevents cardiomyocyte apoptosis. a The level of the mCRAMP peptide was measured by ELISA in the infarct, border, and remote zones of mouse I/R hearts compared to a sham group (n=5). b The level of the mCRAMP peptide was measured by ELISA in the serum from I/R mice compared to a sham group (n=5). c qRT-PCRs were performed to measure specific genes expressed in isolated neonatal mouse cardiac myocytes (NMCMs) and fibroblasts (NMCFs) (n=6). d The level of the mCRAMP peptide was measured by ELISA in NMCMs and NMCFs (n=9). e The level of the mCRAMP peptide was measured by ELISA in NMCMs treated with oxygen glucose deprivation/reperfusion (OGDR) (n=9). f, g The ratio of apoptosis after rCRAMP stimulation in OGDR-treated neonatal rat cardiomyocytes (NRCMs) as determined by TUNEL staining (f, n=4) and Western blot (g, n=6). Immunofluorescent staining for α -actinin was used to label cardiomyocytes. h The level of rCRAMP mRNA in NRCMs after transfection with siRNAs targeting rCRAMP (n=3). i, j The ratio of apoptosis after transfection with rCRAMP siRNA in OGDR-treated NRCMs as determined by TUNEL staining (i, n=4) and Western blot (j, n=6). Immunofluorescent staining for α -actinin was used to label cardiomyocytes. Scale bar=100 μ m (f, i). Data were expressed as mean $\pm$ SD. *P<0.05, **P<0.01, ***P<0.001 - figure provided by CiteAb. Source: PMID30782145



Please check the [product details page](#) for more images. Overall 12 images are available for ABIN3020683.