Datasheet for ABIN7354482

anti-BAX antibody (N-Term) (DyLight 488)

60 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	BAX
Binding Specificity:	AA 17-48, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BAX antibody is conjugated to DyLight 488
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Human Bax DyLight® 488 conjugated Antibody
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human Bax, different from the related mouse and rat sequences by five amino acids.
Sequence:	EQIMKTGALL LQGFIQDRAG RMGGEAPELA LD
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Human Bax DyLight® 488 conjugated Antibody (ABIN5518740)-Dyl488. Tested in Flow Cytometry applications. This antibody reacts with Human.

Target Details

Target:	BAX
Alternative Name:	BAX (BAX Products)
Background:	Synonyms: Apoptosis regulator BAX, Bcl-2-like protein 4, Bcl2-L-4, BAX, BCL2L4 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. Background: Apoptosis regulator BAX, also known as bcl-2-like protein 4, is a protein that in humans is encoded by the BAX gene. 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. Additionally, 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.
Molecular Weight:	39 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:	Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells1. Apte, S. S., Mattei, M.-G., Olsen, B. R. : Mapping of human BAX gene to chromosome 19q13.3-q13.4 and isolation of a novel alternatively spliced transcript, BAX-delta. Genomics 26: 592-594, 1995. 2. Guo, B., Zhai, D., Cabezas, E., Welsh, K., Nouraini, S., Satterthwait, A. C., Reed, J. C. : Humanin peptide suppresses apoptosis by interfering with Bax activation. Nature 423: 456-461, 2003. 3. Oltvai, Z. N., Milliman, C. L.,

Application Details

	Korsmeyer, S. J. : Bcl-2 heterodimers in vivo with a conserved homolog, Bax, that accelerates programmed cell death. Cell 74: 609-619, 1993. 4. Takeuchi, O., Fisher, J., Suh, H., Harada, H., Malynn, B. A., Korsmeyer, S. J. : Essential role of BAX,BAK in B cell homeostasis and prevention of autoimmune disease. Proc. Nat. Acad. Sci. 102: 11272-11277, 2005.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Each vial contains 50 % glycerol, 0.9 % NaCl, 0.2 % Na2HPO4, 0.02 % 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:	-20 °C
Storage Comment:	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.

Publications

Product cited in:	Liu, Kuang, Wu, Jin, Sun: "A novel polysaccharide from Sargassum integerrimum induces apoptosis in A549 cells and prevents angiogensis in vitro and in vivo." in: **Scientific reports**, Vol. 6, pp. 26722, (2018) (PubMed). Guo, Lin, Shao, Rong, Zhang: "BMP-7 suppresses excessive scar formation by activating the BMP-7/Smad1/5/8 signaling pathway." in: **Molecular medicine reports**, Vol. 16, Issue 2, pp. 1957-1963, (2018) (PubMed). Cui, Li, Xu, Zhang, Sun, Chen: "Emodin alleviates severe acute pancreatitis-associated acute lung injury by decreasing pre-B-cell colony-enhancing factor expression and promoting polymorphonuclear neutrophil apoptosis." in: **Molecular medicine reports**, Vol. 16, Issue 4, pp. 5121-5128, (2018) (PubMed). Chen, Zhu, Yang, Wei, Chen, He, Ji: "Ailanthone induces G2/M cell cycle arrest and apoptosis of

SGC-7901 human gastric cancer cells." in: **Molecular medicine reports**, Vol. 16, Issue 5, pp. 6821-6827, (2018) (PubMed).

Liang, Zhong, Gong, Wang, Zhu, Liu, Yang et al.: "Fibroblast growth factor 21 protects rat cardiomyocytes from endoplasmic reticulum stress by promoting the fibroblast growth factor receptor 1-extracellular signal-regulated kinase 1/2 signaling ..." in: **International journal of molecular medicine**, Vol. 40, Issue 5, pp. 1477-1485, (2018) (PubMed).

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