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Product datasheet for TA328048

BAX Mouse Monoclonal Antibody [Clone ID: 2D2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2D2
Applications:	WB
Recommend Dilution:	WB, IP, IHC
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Amino acids 3-16 of human Bax protein
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml.
Concentration:	0.5 mg/ml
Purification:	The antibody was purified by affinity chromatography.
Predicted Protein Size:	21 kD
Gene Name:	BCL2 associated X protein
Database Link:	NP_620116 Entrez Gene 581 Human
Background:	Bax is a 21 kD pro-apoptotic protein known to regulate apoptosis. Bax is found in the cytoplasm, mitochondria, and nucleus and is highly expressed in hematopoietic stem cells, ovaries, and lymph nodes. Bax binds the anti-apoptotic protein Bcl-2 as a heterodimer or forms homodimers. The relative levels of pro-apoptotic proteins such as Bax and anti-apoptotic proteins such as Bcl-2 determines whether cell death will occur following an apoptotic stimulus. Bax accelerates the opening of mitochondrial VDAC altering membrane potential and allowing cytochrome c to pass out of the mitochondria into the cytosol to initiate downstream caspase activation. p53 can transcriptionally activate the Bax gene to induce apoptosis. Bax has been shown to be mutated in some human cancers.
Synonyms:	BCL2L4
Protein Families:	Druggable Genome, Transmembrane

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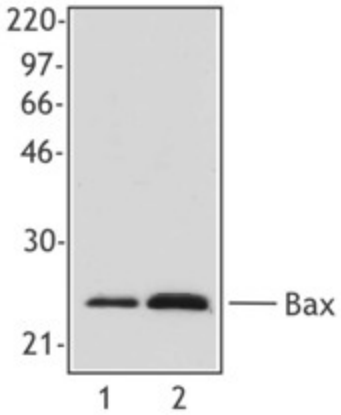
Protein Pathways: Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Huntington's disease, Neurotrophin signaling pathway, p53 signaling pathway, Pathways in cancer, Prion diseases

Product images:



Western blot analysis of extracts from Hela cells (lane 1) and human PBMCs (lane 2) using anti-Bax, clone 2D2.