

Recombinant Human BCL2-Associated X Protein, GST-tagged

Cat. No. BAX-321H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human BAX was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	BAX is a proapoptotic protein of the BCL2 protein family. BAX forms a heterodimer with BCL2 and functions as an apoptotic activator. BAX interacts with and increases the opening of the mitochondrial voltage-dependent anion channel (VDAC), which leads to the loss in the mitochondrial membrane potential and the release of cytochrome c. The expression of BAX gene is regulated by the tumor suppressor p53 and BAX 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.
Applications	Western Blot
Molecular Weight	49 kDa
Expression System	E.coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

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Purity	> 75 %
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Activation; Amyotrophic lateral sclerosis (ALS); Apoptosis; B Cell Receptor Signaling Pathway; Caspase cascade in apoptosis; Ceramide signaling pathway; Colorectal cancer; Direct p53 effectors; HTLV-I infection; Huntington's disease; IL-3 Signaling Pathway; Intrinsic Pathway for Apoptosis; Neurotrophin signaling pathway; Pathways in cancer; Protein processing in endoplasmic reticulum

GENE INFORMATION

Gene Name	BAX BCL2-associated X protein [Homo sapiens]
Official Symbol	BAX
Synonyms	BAX; BCL2-associated X protein; BCL2L4; apoptosis regulator BAX; bcl2-L-4; bcl-2-like protein 4; Bax epsilon; OTTHUMP00000218291; OTTHUMP00000218292; OTTHUMP00000218293; OTTHUMP00000218294; OTTHUMP00000218295; OTTHUMP00000218296
Gene ID	581
mRNA Refseq	NM_004324

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Protein Refseq	NP_004315
MIM	600040
UniProt ID	O95074
Chromosome Location	19q13.3-q13.4
Function	BH3 domain binding; channel activity; identical protein binding; lipid binding; protein binding; protein heterodimerization activity

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