

Rabbit anti-Human, Mouse BAK Polyclonal Antibody | anti-BAK antibody

BAK Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320769	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

BAK; Polyclonal Antibody; BAK Antibody; Apoptosis regulator BAK; BAK like; BAK NT; BAK_HUMAN; BAK1; Bcl 2 homologous antagonist/killer; Bcl 2 like 7 protein; Bcl-2 homologous antagonist/killer; Bcl-2-like protein 7; BCL2 antagonist/killer 1; Bcl2 like 7 Protein; Bcl2-L-7; BCL2L7; CDN1; Cell death inhibitor 1; MGC117255; MGC3887; NBAK; Pro apoptotic protein BAK; anti-BAK antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Bak antibody detects endogenous levels of total Bak
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	211
Applicable Applications for anti-BAK antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Bak
Subcellular Location	Mitochondrion Membrane.
Tissue Specificity	Expressed in a wide variety of tissues, with highest levels in the heart and skeletal muscle.
Predicted Cross Reactivity	Bovine, Horse, Dog
Similarity	Bovine (89%), Horse (100%), Dog (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

AAA320769 at 1/200 staining human skeletal muscle tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA320769 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis on 293 cell lysate using Bak Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-BAK antibody

Description: Bak1 In the presence of an appropriate stimulus, accelerates programmed cell death by binding to, and antagonizing the anti-apoptotic action of BCL2 or its adenovirus homolog E1B 19k protein. Low micromolar levels of zinc ions inhibit the promotion of apoptosis. Belongs to the Bcl-2 family. Interacts with BCL2A1. Homodimer. Formation of the homodimer is zinc-dependent. Forms heterodimers with BCL2, E1B 19k protein, and BCL2L1 isoform Bcl-X(L).

Function: Plays a role in the mitochondrial apoptotic process. Upon arrival of cell death signals, promotes mitochondrial outer membrane (MOM) permeabilization by oligomerizing to form pores within the MOM. This releases apoptogenic factors into the cytosol, including cytochrome c, promoting the activation of caspase 9 which in turn processes and activates the effector caspases.

Subunit Structure: Interacts with BCL2A1 (By similarity). Homodimer. Formation of the homodimer is zinc-dependent. Forms heterodimers with BCL2 and BCL2L1 isoform Bcl-X(L). Interacts with RTL10/BOP. Interacts with VDAC1 (PubMed:25296756).

Similarity: Intact BH3 motif is required by BIK, BID, BAK, BAD and BAX for their pro-apoptotic activity and for their interaction with anti-apoptotic members of the Bcl-2 family. Belongs to the Bcl-2 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502363
NCBI GeneID	578
NCBI Accession #	NP_001179.1
NCBI GenBank Nucleotide #	NM_001188.3
UniProt Accession #	Q16611; Q6I9T6; Q92533; C0H5Y7
Molecular Weight	Observed: 25 kDa Predicted: 24 kDa
NCBI Official Full Name	bcl-2 homologous antagonist/killer
NCBI Official Synonym Full Names	BCL2 antagonist/killer 1
NCBI Official Symbol	BAK1
NCBI Official Synonym Symbols	BAK; CDN1; BCL2L7; BAK-LIKE
NCBI Protein Information	bcl-2 homologous antagonist/killer
UniProt Protein Name	Bcl-2 homologous antagonist/killer

UniProt Gene Name	BAK1
UniProt Synonym Gene Names	BAK; BCL2L7; CDN1; Bcl2-L-7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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