



BID (Cleaved-Arg71) mouse mAb

Catalog No	YP-mAb-00031
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	BID
Immunogen	Synthesized peptide derived from human BID (Cleaved-Arg71)
Specificity	This antibody detects endogenous levels of Human,Mouse BID (Cleaved-Arg71, protein was cleaved amino acid sequence between 71-72)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	BID;FP497;p11 BID;p22 BID;BID (Cleaved-Arg71);BH3-interacting domain death agonist (p22 BID;BID) [Cleaved into: BH3-interacting domain death agonist p15 (p15 BID);BH3-interacting domain death agonist p13 (p13 BID);BH3-interacting domain death agonist p11 (p11 BID)]
Observed Band	22 kDa
Calculated Molecular Weight	22 kDa
Cell Pathway	Cytoplasm . Mitochondrion membrane . Mitochondrion outer membrane . When uncleaved, it is predominantly cytoplasmic. . ; [BH3-interacting domain death agonist p15]: Mitochondrion membrane . Translocates to mitochondria as an integral membrane protein. . ; [BH3-interacting domain death agonist p13]: Mitochondrion membrane . Associated with the mitochondrial membrane. . ; [Isoform 1]: Cytoplasm . ; [Isoform 3]: Cytoplasm . ; [Isoform 2]: Mitochondrion membrane . A significant proportion of isoform 2 localizes to mitochondria, it may be cleaved constitutively. .
Tissue Specificity	[Isoform 2]: Expressed in spleen, pancreas and placenta (at protein level). . ; [Isoform 3]: Expressed in lung, pancreas and spleen (at protein level). . ; [Isoform 4]: Expressed in lung and pancreas (at protein level).



Function

release of cytochrome c from mitochondria, protein targeting, protein targeting to mitochondrion, mitochondrial transport, intracellular protein transport, apoptosis, induction of apoptosis, mitochondrion organization, mitochondrial membrane organization, protein localization, cell death, induction of apoptosis by extracellular signals, activation of pro-apoptotic gene products, apoptotic mitochondrial changes, regulation of cell death, positive regulation of cell death, programmed cell death, induction of programmed cell death, protein transport, membrane organization, death, protein import, protein localization in organelle, cellular protein localization, regulation of apoptosis, positive regulation of apoptosis, regulation of programmed cell death, positive regulation of programmed cell death, establishment of protein localization, regulation of mitochondrial membrane permeability, int

Background

domain: 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. function: The major proteolytic product p15 BID allows the release of cytochrome c (By similarity). Isoform 1, isoform 2 and isoform 4 induce ICE-like proteases and apoptosis. Isoform 3 does not induce apoptosis. Counters the protective effect of Bcl-2. PTM: Phosphorylated upon DNA damage, probably by ATM or ATR. PTM: TNF-alpha induces a caspase-mediated cleavage of p22 BID into a major p15 and minor p13 and p11 products. subcellular location: A significant proportion of isoform 2 localizes to mitochondria, it may be cleaved constitutively. subcellular location: Associated with the mitochondrial membrane. subcellular location: Translocates to mitochondria as an integral membrane protein. subcellular location: When uncleaved, it is predominantly cytoplasmic. subunit: Forms heterodimers either with the pro-apoptotic protein BAX or the anti-apoptotic protein Bcl-2. tissue specificity: Isoforms 2 and 3 are expressed in spleen, bone marrow, cerebral and cerebellar cortex. Isoform 2 is expressed in spleen, pancreas and placenta (at protein level). Isoform 3 is expressed in lung, pancreas and spleen (at protein level). Isoform 4 is expressed in lung and pancreas (at protein level).

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

