

BID Monoclonal Antibody

Catalog No :	YM0062
Reactivity :	Human
Applications :	WB;IHC;IF;FCM;ELISA
Target :	BID
Fields :	>>Platinum drug resistance;>>Sphingolipid signaling pathway;>>p53 signaling pathway;>>Apoptosis;>>Apoptosis - multiple species;>>Necroptosis;>>Natural killer cell mediated cytotoxicity;>>Non-alcoholic fatty liver disease;>>Alzheimer disease;>>Amyotrophic lateral sclerosis;>>Pathways of neurodegeneration - multiple diseases;>>Tuberculosis;>>Hepatitis C;>>Hepatitis B;>>Measles;>>Human cytomegalovirus infection;>>Influenza A;>>Kaposi sarcoma-associated herpesvirus infection;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Human immunodeficiency virus 1 infection;>>Pathways in cancer;>>Viral myocarditis;>>Lipid and atherosclerosis
Gene Name :	BID
Protein Name :	BH3-interacting domain death agonist
Human Gene Id :	637
Human Swiss Prot No :	P55957
Mouse Swiss Prot No :	P70444
Immunogen :	Purified recombinant fragment of human BID expressed in E. Coli.
Specificity :	BID Monoclonal Antibody detects endogenous levels of BID protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications.

Purification : Affinity purification

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 22kD

Cell Pathway : p53;Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;Natural killer cell mediated cytotoxicity;Alzheimer's disease;Amyotrophic lateral sclerosis (ALS);Pathways in cancer;Viral myocardit

P References : 1. Photochem Photobiol. 2008 Jan-Feb;84(1):250-7.
2. Cell Signal. 2007 Dec;19(12):2468-78.

Background : This gene encodes a death agonist that heterodimerizes with either agonist BAX or antagonist BCL2. The encoded protein is a member of the BCL-2 family of cell death regulators. It is a mediator of mitochondrial damage induced by caspase-8 (CASP8); CASP8 cleaves this encoded protein, and the COOH-terminal part translocates to mitochondria where it triggers cytochrome c release. Multiple alternatively spliced transcript variants have been found, but the full-length nature of some variants has not been defined. [provided by RefSeq, Jul 2008],

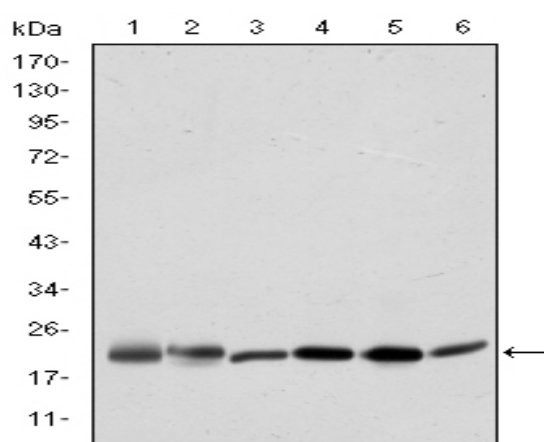
Function : domain:Intact BH3 motif is required by BIK, BID, BAK, BAD and BAX for their pro-apoptotic activity and for their interaction with anti-apoptotic members of the Bcl-2 family.,function:The major proteolytic product p15 BID allows the release of cytochrome c (By similarity). Isoform 1, isoform 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

Subcellular Location : 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. .

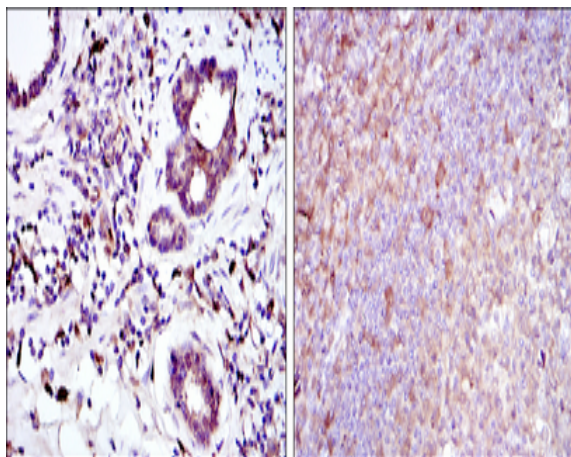
Expression : [Isoform 2]: Expressed in spleen, pancreas and placenta (at protein level). .; [Isoform 3]: Expressed in lung, pancreas and spleen (at protein level). .; [Isoform 4]: Expressed in lung and pancreas (at protein level).

Tag :	<u>orthogonal</u>
Sort :	<u>2690</u>
No4 :	<u>1</u>
Host :	<u>Mouse</u>
Modifications :	<u>Unmodified</u>

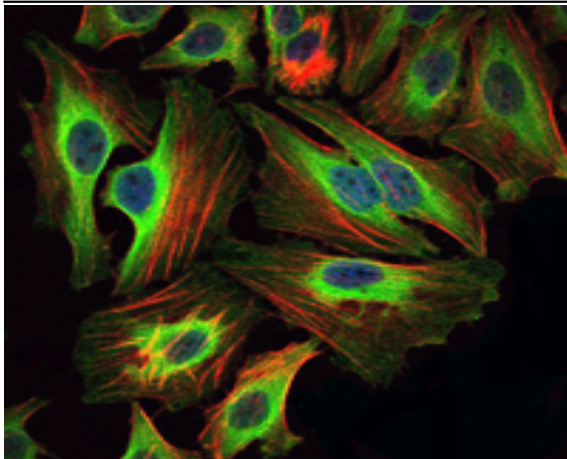
Products Images



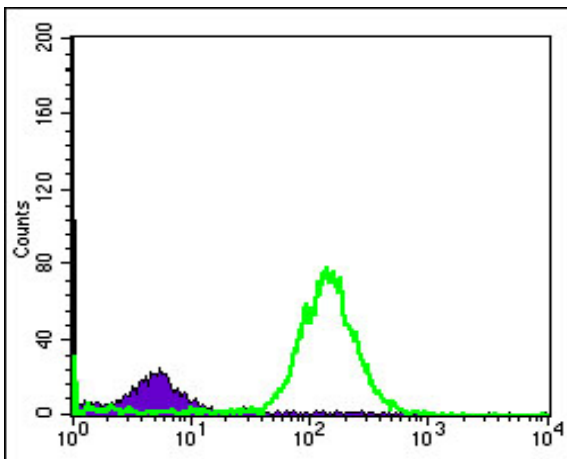
Western Blot analysis using BID Monoclonal Antibody against HeLa (1), A431 (2), Jurkat (3), A549 (4), HepG2 (5), and HEK293 (6) cell lysate.



Immunohistochemistry analysis of paraffin-embedded prostate tissues (left) and tonsil tissues (right) with DAB staining using BID Monoclonal Antibody.



Immunofluorescence analysis of HeLa cells using BID Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of HeLa cells using BID Monoclonal Antibody (green) and negative control (purple)

