

**BID Monoclonal Antibody**

<b>Catalog No :</b>	YM0062
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IHC;IF;FCM;ELISA
<b>Target :</b>	BID
<b>Fields :</b>	>>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
<b>Gene Name :</b>	BID
<b>Protein Name :</b>	BH3-interacting domain death agonist
<b>Human Gene Id :</b>	637
<b>Human Swiss Prot No :</b>	P55957
<b>Mouse Swiss Prot No :</b>	P70444
<b>Immunogen :</b>	Purified recombinant fragment of human BID expressed in E. Coli.
<b>Specificity :</b>	BID Monoclonal Antibody detects endogenous levels of BID protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	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

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

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**Molecularweight :** 22kD

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**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

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

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**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],

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**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

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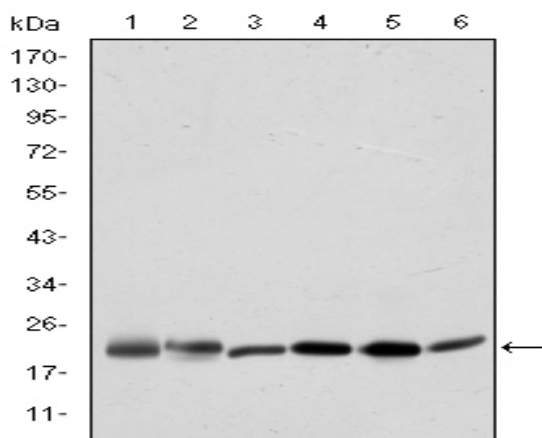
**Subcellular Location :** Cytoplasm . Mitochondrion membrane . Mitochondrion outer membrane . When uncleaved, it is predominantly cytoplasmic. .; [BH3-interacting domain death agonist p15]: Mitochondrion membrane . Translocates to mitochondria as an integral membrane protein. .; [BH3-interacting domain 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. .

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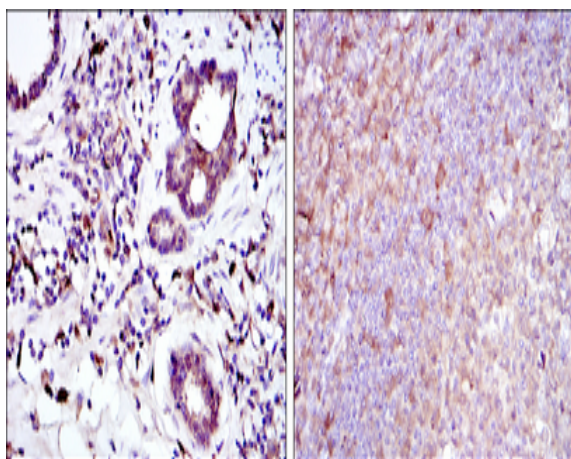
**Expression :** [Isoform 2]: Expressed in spleen, pancreas and placenta (at protein level). .; [Isoform 3]: Expressed in lung, pancreas and spleen (at protein level). .; [Isoform 4]: Expressed in lung and pancreas (at protein level).

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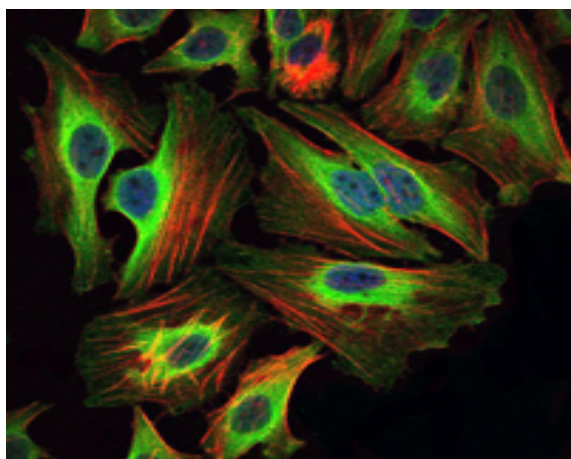
## Products Images



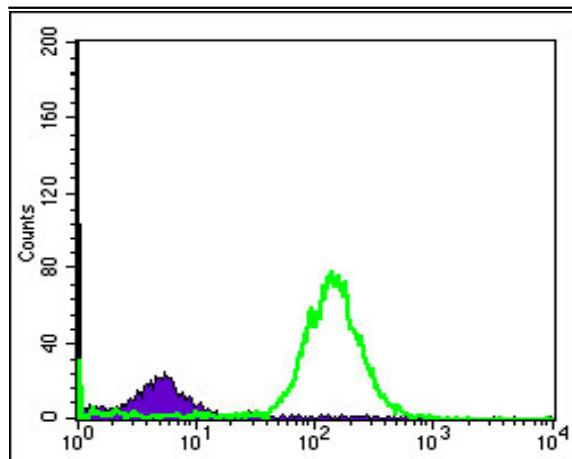
Western Blot analysis using BID Monoclonal Antibody against HeLa (1), A431 (2), Jurkat (3), A549 (4), HepG2 (5), and HEK293 (6) cell lysate.



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)

