

BID Monoclonal Antibody (3C5)

Catalog NumberMA5-17034

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	ELISA (ELISA)	1:10,000
Type	Antibody	Flow Cytometry (Flow)	1:200-1:400
Clone	3C5	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000
Immunogen	Purified recombinant full length human BID protein expressed in E. Coli	Western Blot (WB)	1:500-1:2,000
		Immunocytochemistry (ICC/IF)	1:200-1:1,000
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	Conc. Not Determined		
Storage buffer	ascites		
Contains	0.03% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA5-17034 targets BID in indirect ELISA, FACS, ICC, IHC, IF and WB applications and shows reactivity with Human samples. The MA5-17034 immunogen is purified recombinant fragment of human BID expressed in E. Coli. MA5-17034 detects BID which has a predicted molecular weight of approximately 22kDa.

Background/Target Information

BID is a death agonist that heterodimerizes with either agonist BAX or antagonist BCL2. Bid is a member of the BCL-2 family of cell death regulators. BID 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. BID is also a pro-apoptotic member of the Bcl 2 family. BID usually exists in an inactive form in the cytosolic fraction of living cells and becomes cleaved and activated by caspase 8 in response to TNF alpha or Fas ligand. Once BID is cleaved, the C-terminal 15 kDa fragment of BID (p15) translocates onto mitochondria and is sufficient to trigger cytochrome c release, resulting in cell apoptosis. BID serves as a direct molecular link between caspase 8 activation and mitochondrial death machinery.

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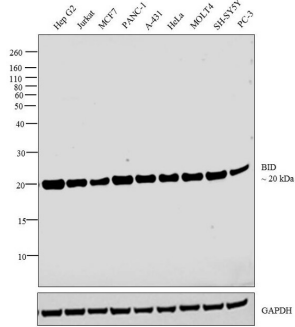
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Product Images For BID Monoclonal Antibody (3C5)

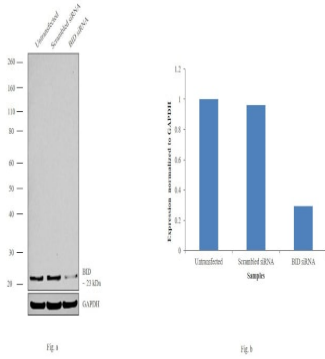
BID Antibody (MA5-17034) in WB

Western blot analysis was performed on whole cell extracts of Hep G2 (Lane 1), Jurkat (Lane 2), MCF7 (Lane 3), PANC-1 (Lane 4), A-431 (Lane 5), HeLa (Lane 6), MOLT4 (Lane 7), SH-SY5Y (Lane 8) and PC-3 (Lane 9). The blot was probed with Anti-BID Monoclonal Antibody (3C5) (Product # MA5-17034, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25µg/ml, 1:4000 dilution). A 20 kDa band corresponding to BID was observed across the cell lines tested.



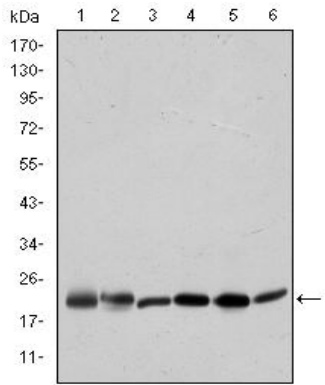
BID Antibody (MA5-17034)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HepG2 cells were transfected with BID siRNA and reduction of signal was observed in Western Blot using BID Monoclonal Antibody (Product # MA5-17034). {KD}



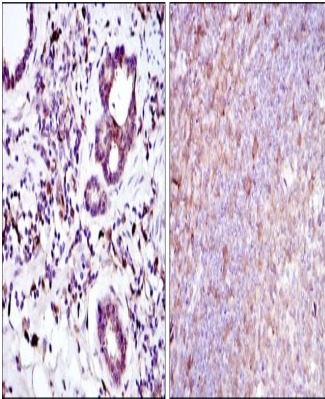
BID Antibody (MA5-17034) in WB

Western blot analysis of BID using BID monoclonal antibody (Product # MA5-17034) in HeLa (1), A431 (2), Jurkat (3), A549 (4), HepG2 (5), and HEK293 (6) cell lysate.



BID Antibody (MA5-17034) in IHC (P)

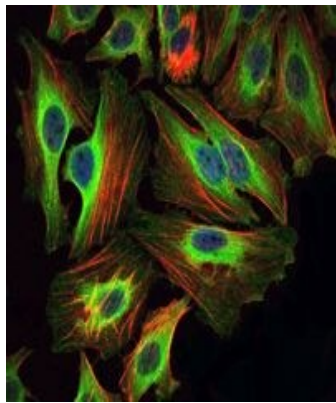
Immunohistochemical analysis of paraffin-embedded prostate tissues (left) and tonsil tissues (right) using BID monoclonal antibody (Product # MA5-17034) followed with DAB staining.



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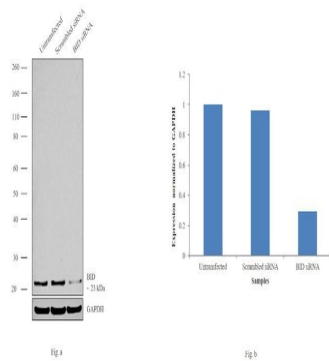
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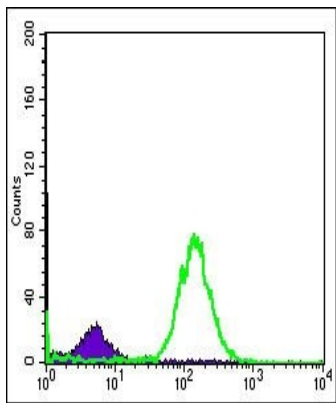
BID Antibody (MA5-17034) in ICC/IF

Immunofluorescence analysis of HeLa cells using BID monoclonal antibody (Product # MA5-17034) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: actin filaments have been labeled with phalloidin.



BID Antibody (MA5-17034) in WB

Knockdown of BID was achieved by transfecting Hep G2 cells with BID specific siRNAs (Silencer® select Product # s1986). Western blot analysis (Fig. a) was performed using membrane enriched extracts from the BID knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with BID Monoclonal Antibody (Product # MA5-17034, 1:2000 dilution) and Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25µg/ml, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to BID.



BID Antibody (MA5-17034) in Flow

Flow cytometric analysis of HeLa cells using BID monoclonal antibody (Product # MA5-17034) (green) and negative control (purple).

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