

BID

Rabbit Anti-Human BH3 Interacting Domain death agonist pAb

Catalog No.	CSI14155	Quantity:	10 blots
Alternate Names:	FP497, MGC15319, MGC42355, BH3-interacting domain death agonist, BID isoform ES (1b), BID isoform L(2), BID isoform Si6, Human BID coding sequence, apoptic death agonist, desmocollin type 4		
Description:	BID [p15] PAb hu; Unconjugated Polyclonal antibody specific to Human BID [p15]. This antibody is validated for use in Western Blot. Anti-BID [p15] recognizes the expressed product of the BID gene. The antibody contains 50% glycerol, which improves the stability and longevity of this antibody.		
Gene ID:	637		
Immunogen:	The antiserum was produced against a chemically synthesized peptide derived from the human BID fragment (p15).		
Target Summary:	BH3 interacting domain death agonist (BID) is a pro-apoptotic member of the Bcl-2 family. BID interacts with both Bcl-2 and Bax through its BH3 domain. It 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- α or Fas ligand. Once BID (22 kDa) 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.		
Purification:	Purified from rabbit serum by sequential epitope-specific chromatography. The antibody has been negatively preadsorbed using a peptide spanning the cleavage site to remove antibody that is reactive with non-cleavage site-specific BID. The final product is generated by affinity chromatography using a BID-derived peptide that is specific for the cleavage site.		
Formulation:	Rabbit polyclonal immunoglobulin in Dulbecco's phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.3 (+/- 0.1), 50% glycerol with 1.0 mg/mL BSA (IgG, protease free) as a carrier.		
Preservative:	0.05% sodium azide. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Positive Controls Used:	Jurkat cells treated with mouse (monoclonal) anti-human Fas (0.5 μ g/mL, 3 hours) or TNF- α to induce cleavage; caspase-8 cleaved recombinant human BID.		
Cross-Reactivity:	Human BID. Mouse (75% homologous) BID has been tested and shown not to cross-react. This antibody does not recognize full length human BID. Rat (75% homologous)		



and chicken (75% homologous) BID have not been tested.

Applications:

The antibody has been used in Western blotting. Other applications have not been tested.

Application Notes:

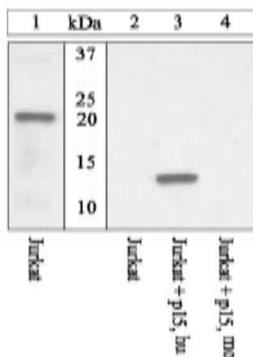
or Western blot applications, we recommend using the antibody at a 1:1,000 starting dilution. The optimal antibody concentration should be determined empirically for each specific application.

Storage & Stability:

Store at -20°C. We recommend a brief centrifugation before opening to settle vial contents. Then, apportion into working aliquots and store at -20°C. For shipment or short-term storage (up to one week), 2-8°C is sufficient.

Expires one year from date of receipt when stored as instructed.

Western Blot
Extracts of Jurkat cells without added BID (lanes 1 and 2), with caspase-8 cleaved recombinant human BID (lane 3), or with caspase-8 cleaved recombinant mouse BID (lane 4) were resolved by SDS-PAGE on a 4-20% Tris-glycine gel and transferred to PVDF. The membrane was blocked with a 5% BSA-TBST buffer for one hour at room temperature, then incubated with either a human BID full length antibody (lane 1) or the human BID (p15) cleavage site-specific antibody (lanes 2-4) for two hours at room temperature in a 1% BSA-TBST buffer. After washing, the membrane was incubated with goat F(ab')₂ anti-rabbit IgG alkaline phosphatase and signals were detected using the Pierce SuperSignal™ method.
The data show that the human BID (p15) antibody recognizes only the human 15 kDa BID fragment, demonstrating the specificity of the antibody.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

