

**Product Name: BID (phospho Ser78) Rabbit Polyclonal Antibody**  
**Catalog #: APRab04318**

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## Summary

<b>Production Name</b>	BID (phospho Ser78) Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	IHC,ELISA
<b>Reactivity</b>	Human,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phospho Antibody
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	BID
<b>Alternative Names</b>	BID; BH3-interacting domain death agonist; p22 BID; BID
<b>Gene ID</b>	637.0
<b>SwissProt ID</b>	P55957.The antiserum was produced against synthesized peptide derived from human BID around the phosphorylation site of Ser78. AA range:44-93

## Application

<b>Dilution Ratio</b>	IHC 1:100-1:300 ELISA: 1:5000
<b>Molecular Weight</b>	

## Background

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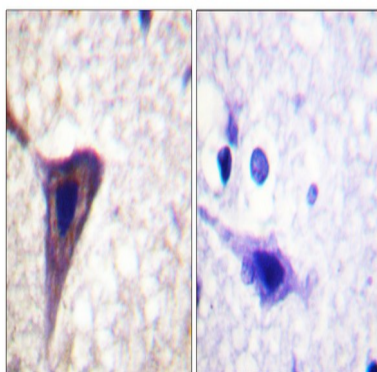


This gene encodes a death agonist that heterodimerizes with either agonist BAX or antagonist BCL2. The encoded protein is a member of the BCL-2 family of cell death regulators. It is a mediator of mitochondrial damage induced by caspase-8 (CASP8); CASP8 cleaves this encoded protein, and the COOH-terminal 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],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),

## Research Area

p53;Apoptosis\_Inhibition;Apoptosis\_Mitochondrial;Apoptosis\_Overview;Natural killer cell mediated cytotoxicity;Alzheimer's disease;Amyotrophic lateral sclerosis (ALS);Pathways in cancer;Viral myocarditis;

## Image Data



Immunohistochemistry analysis of paraffin-embedded human brain, using BID (Phospho-Ser78) Antibody. The picture on the right is blocked with the phospho peptide.

## Note

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For research use only.