

BID (Phospho Ser78) Rabbit pAb

CatalogNo: YP0037

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- IHC, IF, ELISA

MW

- 22kD (Calculated)

Isotype

- IgG

Storage

Storage*

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

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IHC 1:100-1:300**ELISA 1:5000****IF 1:50-200**

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human BID around the phosphorylation site of Ser78. AA range:44-93

Specificity

Phospho-BID (S78) Polyclonal Antibody detects endogenous levels of BID protein only when phosphorylated at S78. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SEsQE

| Target Information

Gene name BID

Protein Name BH3-interacting domain death agonist

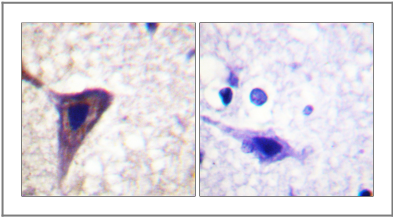
Organism	Gene ID	UniProt ID
Human	637 ;	P55957 ;
Mouse	12122 ;	P70444 ;

Cellular Localization 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. .

Tissue specificity [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).

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, 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). .,

| Validation Data



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

| Contact information

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**BID (Phospho
Ser78) Rabbit pAb**

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