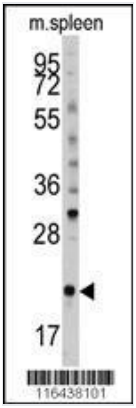
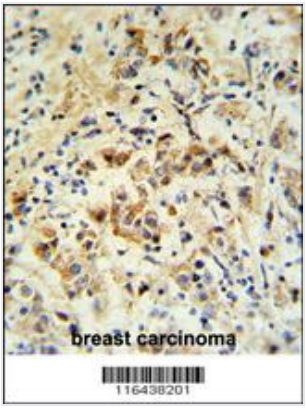
# BID Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

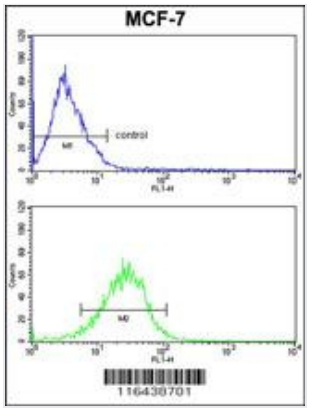
| | |
|---|---|
| **Product Name** | BID, Polyclonal Antibody |
| **Full Product Name** | BID (Ser61) (BH3-interacting Domain Death Agonist, p22 BID) (Azide free) (HRP) |
| **Product Gene Name** | anti-BID antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP). |
| **Purity/Purification** | Purified by Immunoaffinity chromatography. |
| **Specificity** | Recognizes mouse BID. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 21,952 Da |
| **3D Structure** | ModBase 3D Structure for P70444 |
| **Immunogen** | Synthetic non-phosphopeptide corresponding to amino acid residues surrounding Ser61 of mouse BID (KLH). |
| **Conjugate** | HRP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-BID antibody** | Antibodies; Apoptosis |
| **Applications Tested/Suitable for anti-BID antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-BID antibody** | WB: 1:50-1:100<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-BID antibody** | MBS6465311 is an antibody targeting BID. Also known as BID (Ser61) (BH3-interacting Domain Death Agonist, p22 BID) (Azide free) (HRP). Reactive in Mouse. Host: Rabbit. |
| **Product References and Citations for anti-BID antibody** | 1. Ziporen, L., J. Immunol. 182(1), 515-521 (2009). 2. Kaufmann, T., Immunity 30(1), 56-66 (2009). 3. Mandal, M., Proc. Natl. Acad. Sci. USA 105(52), 20840-20845 (2008). |
| **Other Notes** | Small volumes of anti-BID antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-BID antibody**
Western blot analysis of anti-mouse BID Antibody (S61) in mouse spleen tissue lysates (35ug/lane). BID (arrow) was detected using the purified Pab.




**Immunohistochemistry (IHC) of anti-BID antibody**
mouse BID Antibody (S61) IHC analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the mouse BID Antibody (S61) for immunohistochemistry. Clinical relevance has not been evaluated.




**Flow Cytometry (FC/FACS) of anti-BID antibody**
mouse BID Antibody (S61) FC analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BID. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 31542228 |
| **NCBI GeneID** | 12122 |
| **NCBI Accession #** | NP_031570 |
| **UniProt Primary Accession #** | P70444 |
| **UniProt Secondary Accession #** | Q99M39 |
| **UniProt Related Accession #** | P70444 |
| **GenBank Nucleotide #** | NM_007544.3 |
| **NCBI Official Full Name** | BH3-interacting domain death agonist |
| **NCBI Official Synonym Full Names** | BH3 interacting domain death agonist |
| **NCBI Official Symbol** | Bid |
| **NCBI Official Synonym Symbols** | AI875481; AU022477; 2700049M22Rik |
| **UniProt Protein Name** | BH3-interacting domain death agonist |
| **UniProt Synonym Protein Names** | p22 BID; BID |

| | |
|---|---|
| **Protein Family** | BH3-interacting domain death agonist |
| **UniProt Gene Name** | Bid |
| **UniProt Synonym Gene Names** | BID |
| **UniProt Entry Name** | BID_MOUSE |
| **NCBI Protein Information** | BH3-interacting domain death agonist |
| **UniProt Comments for BID** | BID: a pro-apoptotic member of the Bcl-2 superfamily. Targets intracellular membranes and contains a BH3 death domain. Heterodimerizes with either the pro-apoptotic protein BAX or the anti-apoptotic protein BCL2, antagonizing its protective effect. The activity of BID is regulated by Caspase 8-mediated cleavage, exposing the BH3 domain and significantly changing the surface charge and hydrophobicity, causing translocation to mitochondria where it triggers cytochrome c release. Multiple alternatively spliced variants have been found.<br><br>Protein type: Apoptosis; Mitochondrial<br><br>Cellular Component: membrane; mitochondrion; cell; cytoplasm; intracellular; cytosol<br><br>Molecular Function: protein binding; ubiquitin protein ligase binding<br><br>Biological Process: caspase activation; release of cytochrome c from mitochondria; positive regulation of protein homooligomerization; positive regulation of apoptosis; apoptosis; DNA damage response, signal transduction; regulation of protein oligomerization; regulation of cell proliferation; regulation of apoptosis; positive regulation of protein oligomerization; apoptotic mitochondrial changes; protein targeting to mitochondrion; protein homooligomerization |
| **Research Articles on BID** | **1.** A phosphorylation-deficient mutant of BID, MTCH2's ligand, induces an increase in OXPHOS, but with higher ROS and reduced ATP levels than Mtch2 loss, and is associated with hypersensitivity to irradiation. |
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