

## Rabbit Bim Polyclonal Antibody | anti-Bim antibody

Phospho-Bim (Ser44/Ser104) Antibody

| CATALOG # | HOST   | REACTIVITY                                                                                                                  | APPLICATIONS                              |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| AAA329789 | Rabbit | Human, Mouse, Rat<br>Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%) | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

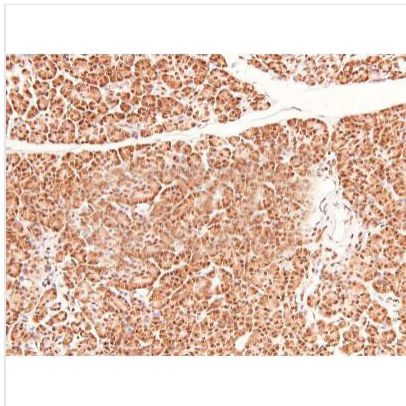
Bim; Polyclonal Antibody; Phospho-Bim (Ser44/Ser104) Antibody; BCL2 like 11; B2L11\_HUMAN; BAM; Bcl 2 interacting protein Bim; Bcl 2 related ovarian death agonist; Bcl-2-like protein 11; BCL2 interacting mediator of cell death; BCL2 like 11 (apoptosis facilitator); BCL2 like protein 11; Bcl2-interacting mediator of cell death; Bcl2-L-11; Bcl2l11; BIM alpha6; BIM; BIM beta6; BIM beta7; BimEL; BimL; BOD; anti-Bim antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                    | Human, Mouse, Rat<br>Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                       | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Specificity                                   | Phospho-Bim (Ser44/Ser104) Antibody detects endogenous levels of Bim only when phosphorylated at Thr104 (Isoform BimEL, O43521-1) or Thr44 (Isoform BimL, O43521-2).<br>Tissue Specificity: Isoform BimEL, isoform BimL and isoform BimS are the predominant isoforms and are widely expressed with tissue-specific variation. Isoform Bim-gamma is most abundantly expressed in small intestine and colon, and in lower levels in spleen, prostate, testis, heart, liver and kidney.                                                                                                                                                                                                                                                                                                                                                                                              |
| Purity/Purification                           | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                                   | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Concentration                                 | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applicable Applications for anti-Bim antibody | ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Immunogen                                     | A synthesized peptide derived from human Bim around the phosphorylation site of Ser44/104.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Conjugation                                   | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Fragment                                      | Fab fragment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Post Translational Modifications              | Phosphorylation at Ser-69 by MAPK1/MAPK3 leads to interaction with TRIM2 and polyubiquitination, followed by proteasomal degradation. Deubiquitination catalyzed by USP27X stabilizes the protein (By similarity). Ubiquitination by TRIM2 following phosphorylation by MAPK1/MAPK3 leads to proteasomal degradation. Conversely, deubiquitination catalyzed by USP27X stabilizes the protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Subunit Structure                             | Forms heterodimers with a number of antiapoptotic Bcl-2 proteins, including MCL1, BCL2, BCL2L1 isoform Bcl-X (L), BCL2A1/BFL-1, BHRF1, and BCL2L2/BCLW. Isoform BimS and isoform Bim-alpha3 interact with BAX; this interaction may lead to BAX activation through conformational change. Does not heterodimerize with proapoptotic proteins such as BAD, BOK or BAK. Identified in a complex containing BCL2L11, DYNLL1 and BCL2L1 isoform Bcl-X (L); BH3 integrity is required for BCL2L1-binding. Interacts with YWHAZ. When phosphorylated, interacts with TRIM2; this interaction is associated with ubiquitination and degradation. Interacts with MCL1; may sequester BCL2L11 to prevent its pro-apoptotic activity. When phosphorylated, isoform BimEL interacts with USP27X; this interaction leads to BCL2L11 deubiquitination and stabilization. Interacts with GIMAP5. |
| Similarity                                    | The BH3 motif is required for interaction with Bcl-2 proteins and cytotoxicity. Belongs to the Bcl-2 family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                         |                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subcellular Location    | Endomembrane system>Peripheral membrane protein.<br>Note: Associated with intracytoplasmic membranes.Mitochondrion.<br>Note: Translocates from microtubules to mitochondria on loss of cell adherence.Mitochondrion. Mitochondrion. Mitochondrion. |
| Preparation and Storage | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                  |

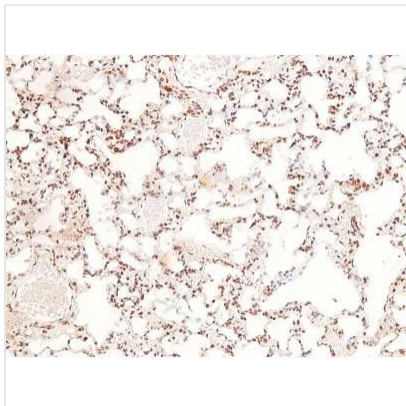
## IMAGES



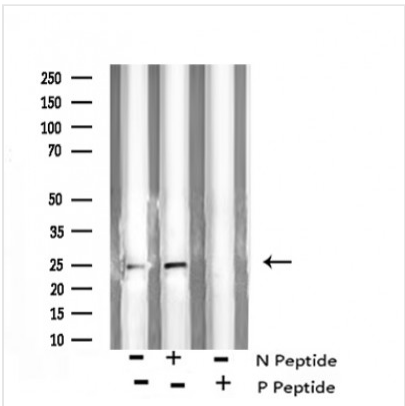
**IHC (Immunohistochemistry)**  
At 1/200 staining Human pancreas tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



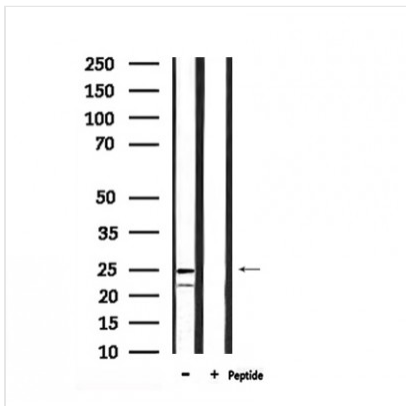
**IHC (Immunohistochemistry)**  
At 1/200 staining Mouse brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
At 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



**WB (Western Blot)**  
Western blot analysis of Bim (Phospho-Ser44/104) using Sobital treated 293 whole cell lysates.-/+ means absence or presence of N peptide(1/4non-phospho peptide) and P peptide(phospho peptide).



**WB (Western Blot)**  
Western blot analysis of extracts from 293, using Bim (Phospho-Ser44/104) Antibody.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-Bim antibody | Induces apoptosis and anoikis. Isoform BimL is more potent than isoform BimEL. Isoform Bim-alpha1, isoform Bim-alpha2 and isoform Bim-alpha3 induce apoptosis, although less potent than isoform BimEL, isoform BimL and isoform BimS. Isoform Bim-gamma induces apoptosis. Isoform Bim-alpha3 induces apoptosis possibly through a caspase-mediated pathway. Isoform BimAC and isoform BimABC lack the ability to induce apoptosis. |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 323362959                                                                                                                           |
| NCBI GeneID                      | 10018                                                                                                                               |
| NCBI Accession #                 | NP_001191035.1                                                                                                                      |
| NCBI GenBank Nucleotide #        | NM_001204106.1                                                                                                                      |
| UniProt Accession #              | O43521; O43522; Q0MSE7; Q0MSE8; Q0MSE9; Q53R28; Q6JTU6; Q6T851; Q6TE14; Q6TE15; Q6TE16; A8K2W2                                      |
| Molecular Weight                 | 22,171 Da                                                                                                                           |
| NCBI Official Full Name          | bcl-2-like protein 11 isoform 11                                                                                                    |
| NCBI Official Synonym Full Names | BCL2-like 11 (apoptosis facilitator)                                                                                                |
| NCBI Official Symbol             | BCL2L11                                                                                                                             |
| NCBI Official Synonym Symbols    | BAM; BIM; BOD                                                                                                                       |
| NCBI Protein Information         | bcl-2-like protein 11; bcl-2 interacting protein Bim; bcl-2-related ovarian death agonist; bcl-2 interacting mediator of cell death |
| UniProt Protein Name             | Bcl-2-like protein 11                                                                                                               |
| UniProt Gene Name                | <b>BCL2L11</b>                                                                                                                      |
| UniProt Synonym Gene Names       | BIM; Bcl2-L-11                                                                                                                      |
| UniProt Entry Name               | B2L11_HUMAN                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.