

**Bim (phospho Ser59) Polyclonal Antibody**

<b>Catalog No :</b>	YP1065
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	Bim
<b>Fields :</b>	>>EGFR tyrosine kinase inhibitor resistance;>>FoxO signaling pathway;>>PI3K-Akt signaling pathway;>>Apoptosis;>>Apoptosis - multiple species;>>Non-alcoholic fatty liver disease;>>Epstein-Barr virus infection;>>Pathways in cancer;>>MicroRNAs in cancer;>>Colorectal cancer
<b>Gene Name :</b>	BCL2L11
<b>Protein Name :</b>	Bcl-2-like protein 11
<b>Human Gene Id :</b>	10018
<b>Human Swiss Prot No :</b>	O43521
<b>Mouse Gene Id :</b>	12125
<b>Mouse Swiss Prot No :</b>	O54918
<b>Rat Gene Id :</b>	64547
<b>Rat Swiss Prot No :</b>	O88498
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human BIM around the phosphorylation site of Ser59. AA range:31-80
<b>Specificity :</b>	Phospho-Bim (S59) Polyclonal Antibody detects endogenous levels of Bim protein only when phosphorylated at S59.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Molecularweight :** 22kD

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**Cell Pathway :** Stem cell pathway; PI3K/Akt

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**Background :** The protein encoded by this gene belongs to the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. The protein encoded by this gene contains a Bcl-2 homology domain 3 (BH3). It has been shown to interact with other members of the BCL-2 protein family and to act as an apoptotic activator. The expression of this gene can be induced by nerve growth factor (NGF), as well as by the forkhead transcription factor FKHR-L1, which suggests a role of this gene in neuronal and lymphocyte apoptosis. Transgenic studies of the mouse counterpart suggested that this gene functions as an essential initiator of apoptosis in thymocyte-negative selection. Several alternatively spliced transcript variants of this gene have been identified. [provided by RefSeq, Jun 2013],

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**Function :** domain:The BH3 motif is required for Bcl-2 binding and cytotoxicity.,function:Induces apoptosis. Isoform BimL is more potent than isoform BimEL. Isoform Bim-alpha1, isoform Bim-alpha2 and isoform Bim-alpha3 induce apoptosis, although less potent than the isoforms BimEL, BimL and BimS. Isoform Bim-gamma induces apoptosis.,similarity:Belongs to the Bcl-2 family.,subcellular location:Associated with intracytoplasmic membranes.,subunit:Forms heterodimers with a number of antiapoptotic Bcl-2 proteins including MCL1, BCL2, BCL2L1 isoform Bcl-X(L), BCL2A1/BFL-1, and BHRF1. Does not heterodimerize with proapoptotic proteins such as BAD, BOK, BAX or BAK.,tissue specificity:Isoform BimEL, isoform BimL and isoform BimS are the predominant isoforms and are ubiquitously expressed with a tissue-specific variation. Isoform Bim-gamma is most abundantly expressed in small intestine and colon, and in lowe

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**Subcellular Location :** Endomembrane system ; Peripheral membrane protein . Associated with intracytoplasmic membranes. .; [Isoform BimEL]: Mitochondrion. Translocates from microtubules to mitochondria on loss of cell adherence.; [Isoform BimL]: Mitochondrion.; [Isoform BimS]: Mitochondrion.; [Isoform Bim-alpha1]: Mitochondrion.

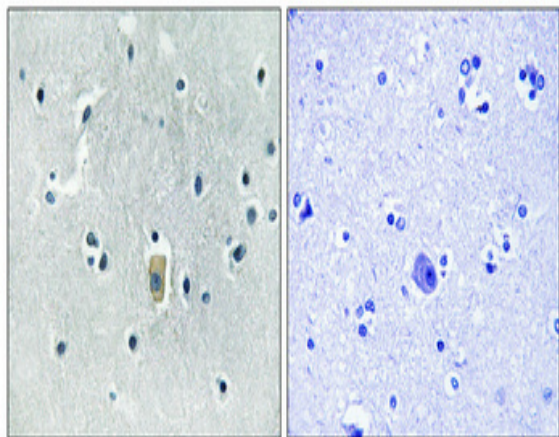
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**Expression :** Isoform BimEL, isoform BimL and isoform BimS are the predominant isoforms

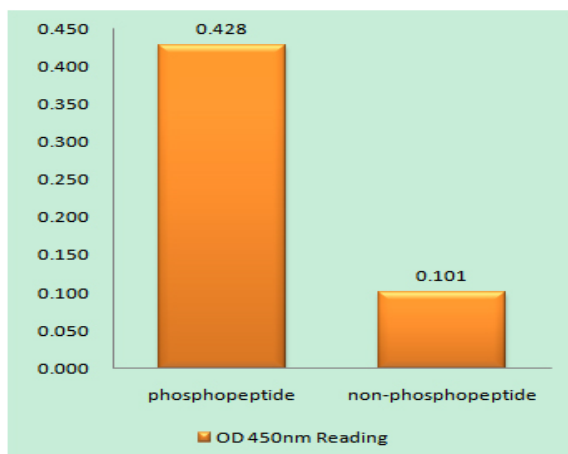
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and are widely expressed with tissue-specific variation. Isoform Bim-gamma is most abundantly expressed in small intestine and colon, and in lower levels in spleen, prostate, testis, heart, liver and kidney.

## Products Images



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using BIM (Phospho-Ser59) Antibody