

# Anti-Bim Antibody

## RT1076



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IP, IF, IHC-P
<b>Molecular Wt:</b>	BimS: 19kDa, BimL: 21 kDa, BimEL: 24 kDa

**Description:** Pro-apoptotic Bcl-2 family members promote cell death by neutralizing their anti-apoptotic relatives, which otherwise maintain cell viability by regulating caspase activity. Bim belongs to the BH3-only subgroup of Bcl-2 related proteins, and exists in three distinct isoforms, BimS (short), BimL (long) and BimEL (extra long). ERK1/2 phosphorylates BimEL, resulting in rapid degradation of the isoform via the proteasome pathway. At least three sites for ERK1/2 phosphorylation exist on BimEL, whereas ERK1/2 does not effect BimS and BimL, implying a unique role for BimEL in cell survival signaling.

**Immunogen:** peptide

**Positive control:** HuT 78, human kidney tissue.

**Subcellular location:** Endomembrane system

**Database links:** SwissProt: O43521 Human

### Recommended Dilutions:

<b>WB</b>	1:100-1:1,000
<b>IP</b>	1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)
<b>IF</b>	1:50-1:500
<b>IHC-P</b>	1:50-1:500

**Storage Buffer:** 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**Storage Instruction:** Store at +4°C

**Purity:** Immunogen affinity purified.

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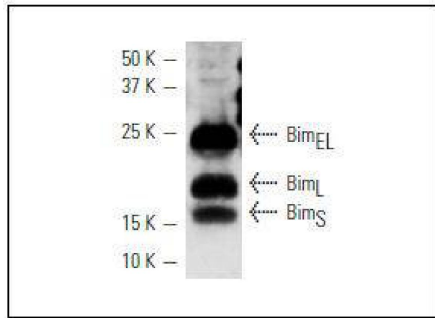
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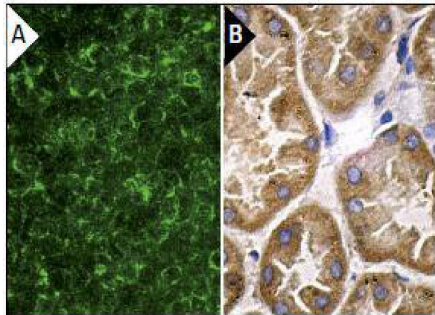
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## Images



**Fig1:** Western blot analysis of Bim isoform expression in HuT 78 whole cell lysate.



**Fig2:** Immunofluorescence staining of normal mouse lymph node frozen section showing cytoplasmic staining (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining of cells in tubules (B).

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Liao, M., et al. 2011. Role of bile salt in regulating Mcl-1 phosphorylation and chemoresistance in hepatocellular carcinoma cells. *Mol. Cancer* 10: 44.
2. Essafi, M., et al. 2011. Cell-penetrating TAT-FOXO3 fusion proteins induce apoptotic cell death in leukemic cells. *Mol. Cancer Ther.* 10: 37-46.

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