SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-BBC3/PUMA antibody

Catalog Number: SL1573R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	BBC3/PUMA
Immunogen:	KLH conjugated synthetic peptide derived from human BBC3: 131-180/193
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Dog,Pig,Cow)
Predicted MW.:	21kDa
Subcellular Location:	cytoplasmic Mitochondrion
Background:	This gene encodes a member of the BCL-2 family of proteins. This family member belongs to the BH3-only pro-apoptotic subclass. The protein cooperates with direct activator proteins to induce mitochondrial outer membrane permeabilization and apoptosis. It can bind to anti-apoptotic Bcl-2 family members to induce mitochondrial dysfunction and caspase activation. Because of its pro-apoptotic role, this gene is a potential drug target for cancer therapy and for tissue injury. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011] **Function:** Essential mediator of p53/TP53-dependent and p53/TP53-independent apoptosis. Functions by promoting partial unfolding of BCL2L1 and dissociation of BCL2L1 from p53/TP53. Essential for ER stress-induced cell death.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subunit: Interacts with BCL2, BCL2L1/BCL-XL, MCL1 and BCL2A1. **Subcellular Location:** Mitochondrion. Note=Localized to the mitochondria in order to induce cytochrome c release. **Similarity:** Belongs to the Bcl-2 family. **Database links:** **Entrez Gene:** 27113 Human **Entrez Gene:** 170770 Mouse **Entrez Gene:** 317673 Rat Omim: 605854 Human **SwissProt:** Q9BXH1 Human **SwissProt:** Q99ML1 Mouse **SwissProt:** Q80ZG6 Rat **Unigene:** 467020 Human **Unigene:** 7660 Mouse **Unigene:** 25176 Rat PUMAIt is activated by p53 in cells induced by p53 to undergo Apoptosis. In Mitochondrion, PUMA induces the release of cytochrome C and activation for rapid induction of Apoptosis. PUMA interacts with Bcl2, Bcl-XL, and Bcl2-like-1 protein, promoting Mitochondrion translocation and BAX multimerization. PUMA also plays a role in mediating p53-induced cell death through the cytochrome C/APAF1-dependent pathway.

[VALIDATION IMAGES]

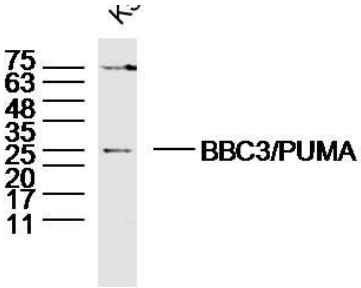


Figure 1. Sample: K562 Cell Lysate at 30 ug Primary: Anti- BBC3 (SL1573R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 21 kD Observed band size: 25 kD

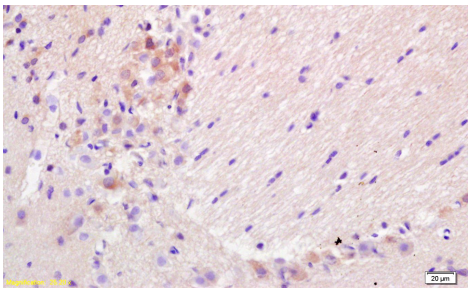


Figure 2. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-BBC3/PUMA Polyclonal Antibody, Unconjugated(SL1573R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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