

# BBC3/PUMA Rabbit pAb

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Catalog # AP52311

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">Q9BXH1</a>
<b>Reactivity</b>	Human, Rat
<b>Predicted</b>	Mouse, Dog, Pig
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	20532
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human BBC3
<b>Epitope Specificity</b>	131-180/193
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Mitochondrion. Note=Localized to the mitochondria in order to induce cytochrome c release.
<b>SIMILARITY</b>	Belongs to the Bcl-2 family.
<b>SUBUNIT</b>	Interacts with BCL2, BCL2L1/BCL-XL, MCL1 and BCL2A1.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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]

## Additional Information

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<b>Gene ID</b>	27113
<b>Other Names</b>	Bcl-2-binding component 3, isoforms 1/2, JFY-1, p53 up-regulated modulator of apoptosis, BBC3, PUMA
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

Name	BBC3
Synonyms	PUMA
Function	Essential mediator of p53/TP53-dependent and p53/TP53- independent apoptosis (PubMed: <a href="#">11463391</a> , PubMed: <a href="#">23340338</a> ). Promotes partial unfolding of BCL2L1 and dissociation of BCL2L1 from p53/TP53, releasing the bound p53/TP53 to induce apoptosis (PubMed: <a href="#">23340338</a> ). Regulates ER stress-induced neuronal apoptosis (By similarity).
Cellular Location	Mitochondrion Note=Localized to the mitochondria in order to induce cytochrome c release
Tissue Location	Ubiquitously expressed.

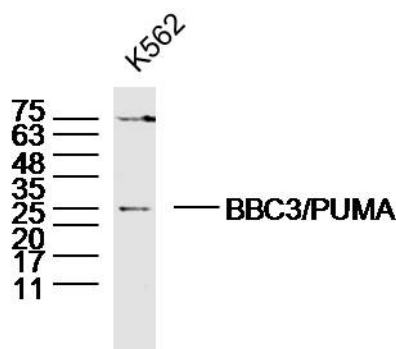
## Background

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]

## References

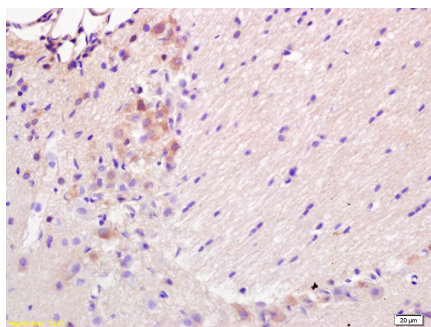
Nakano K.,et al.Mol. Cell 7:683-694(2001).  
Grimwood J.,et al.Nature 428:529-535(2004).  
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

## Images



Sample: K562 Cell Lysate at 30 ug  
Primary: Anti- BBC3 (AP52311) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 21 kD  
Observed band size: 25 kD

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(AP52311) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.