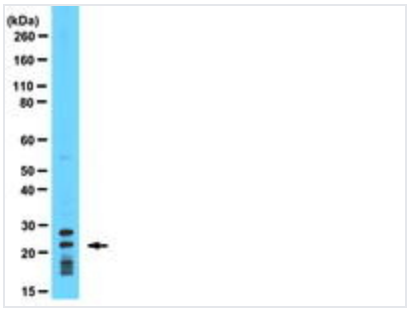
PUMA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PUMA, Polyclonal Antibody
Full Product Name	PUMA, BH3 domain (p53 Upregulated Modulator of Apoptosis, BCL2 Binding Component 3, BCL-2 Binding Component 3, BBC3, JFY1, JFY-1, p53 Up-regulated Modulator of Apoptosis, PUMA alpha, PUMA/JFY1) (HRP)
Product Gene Name	anti-PUMA antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes the 21kD Puma BH3 domain protein. Species Crossreactivity: mouse.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and store at -20 degree C. Aliquots are stable for at least 6 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	23 kDa
3D Structure	ModBase 3D Structure for Q99ML1
Immunogen	Synthetic peptide corresponding to the C-terminal region of human Puma. Cellular Localization: Mitochondrion. Species sequence homology: human.
Conjugate	HRP
Positive Control	Mouse brain lysate
Note	Preservative Free
Product Categories/Family for anti-PUMA antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-PUMA antibody	Western Blot (WB)
Application Notes for anti-PUMA antibody	WB: 1:250 Applications are based on unconjugated antibody.
Related Product Information for anti-PUMA antibody	MBS6496137 is an antibody targeting PUMA. Also known as PUMA, BH3 domain (p53 Upregulated Modulator of Apoptosis, BCL2 Binding Component 3, BCL-2 Binding Component 3, BBC3, JFY1, JFY-1, p53 Up-regulated Modulator of Apoptosis, PUMA alpha, PUMA/JFY1) (HRP). Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PUMA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PUMA antibody
Western Blot Analysis: Mouse adult brain lysate was resolved by electrophoresis, transferred to PVDF membrane and probed with the Ab (1:250 dilution of this lot). Proteins were visualized using a Donkey anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence detection system. Arrow indicates protein Puma (~21kD).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PUMA. It may not necessarily be applicable to this product.

NCBI GI #	15193488
NCBI GeneID	27113
NCBI Accession #	NP_055232
UniProt Primary Accession #	Q99ML1
UniProt Secondary Accession #	O00171; Q96PG9; B9EGI3
UniProt Related Accession #	Q96PG8; Q9BXH1
GenBank Nucleotide #	NM_014417.4
NCBI Official Full Name	bcl-2-binding component 3 isoform 4
NCBI Official Synonym Full Names	BCL2 binding component 3
NCBI Official Symbol	BBC3
NCBI Official Synonym Symbols	JFY1; PUMA; JFY-1
UniProt Protein Name	Bcl-2-binding component 3
UniProt Synonym Protein Names	p53 up-regulated modulator of apoptosis
Protein Family	Hydroxycarboxylic acid receptor
UniProt Gene Name	Bbc3
UniProt Synonym Gene Names	Puma
UniProt Entry Name	BBC3_MOUSE
NCBI Protein Information	bcl-2-binding component 3; p53 up-regulated modulator of apoptosis
NCBI Summary for PUMA	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]

UniProt Comments for PUMA	PUMA: Essential mediator of p53/TP53-dependent and p53/TP53- independent apoptosis. Interacts with MCL1 and BCL2A1. Interacts with BCL2 and BCL2L1/BCL-XL. By DNA damage, glucocorticoid treatment, growth factor deprivation and p53/TP53. Ubiquitously expressed. Belongs to the Bcl-2 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial Cellular Component: mitochondrial envelope; mitochondrion; endoplasmic reticulum; intracellular; cytosol Molecular Function: protein binding Biological Process: caspase activation; release of cytochrome c from mitochondria; positive regulation of apoptosis; apoptosis; positive regulation of protein homooligomerization; determination of adult life span; release of sequestered calcium ion into cytosol; positive regulation of neuron apoptosis; reduction of endoplasmic reticulum calcium ion concentration; negative regulation of cell growth; response to DNA damage stimulus; DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis; negative regulation of growth
Research Articles on PUMA	**1.** c-Jun transactivates Puma gene expression to promote osteoarthritis.
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