

## **PUMA/bbc3 Antibody**

Purified Rabbit Polyclonal Antibody Catalog # ABV11527

# **Specification**

## **PUMA/bbc3 Antibody - Product Information**

Application WB
Primary Accession Q9BXH1

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 20532

# PUMA/bbc3 Antibody - Additional Information

**Gene ID 27113** 

**Other Names** 

PUMA/JFY1, JFY-1, PUMA, BBC3, bcl-2 binding component 3

Target/Specificity

**PUMA** 

## **Formulation**

 $100 \mu g$  (0.5 mg/ml) affinity purified rabbit anti-PUMA polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

## Handling

The antibody solution should be gently mixed before use.

# **Background Descriptions**

#### **Precautions**

PUMA/bbc3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

# **PUMA/bbc3 Antibody - Protein Information**

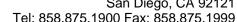
Name BBC3

**Synonyms PUMA** 

# **Function**

Essential mediator of p53/TP53-dependent and p53/TP53- independent apoptosis (PubMed:<a href="http://www.uniprot.org/citations/11463391" target="\_blank">11463391</a>, PubMed:<a href="http://www.uniprot.org/citations/23340338" target="\_blank">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="http://www.uniprot.org/citations/23340338" target=" blank">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**

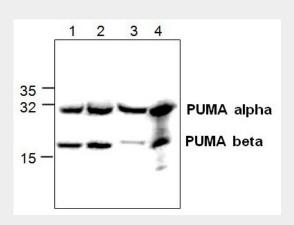
Ubiquitously expressed.

# **PUMA/bbc3 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## PUMA/bbc3 Antibody - Images



Western blot analysis of PUMA in Lysates from Jurkat cells(Lane1&2), 3T3 cells(Lane3) and rat kidney(Lane4).

## PUMA/bbc3 Antibody - Background

PUMA (p53 upregulated modulator of apoptosis) is one of the pro-apoptotic Bcl-2 family members which are also transcriptional targets of p53. PUMA gene encodes two BH3 domain-containing proteins termed PUMA- $\alpha$  and PUMA- $\beta$ . PUMA proteins bind Bcl-2, localize to the mitochondria, and induce cytochrome c release and apoptosis in response to p53. PUMA may be a direct mediator of p53-induced apoptosis.