

**PUMA (NT) Antibody**  
**Catalog # ASM10417****Specification**

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**PUMA (NT) Antibody - Product Information**

|                                        |                                |
|----------------------------------------|--------------------------------|
| Application                            | WB, IHC                        |
| Primary Accession                      | <a href="#">Q9BXH2</a>         |
| Other Accession                        | <a href="#">NP_001120712.1</a> |
| Host                                   | Rabbit                         |
| Reactivity                             | Human, Rat                     |
| Clonality                              | Polyclonal                     |
| <b>Description</b>                     |                                |
| Rabbit Anti-Human PUMA (NT) Polyclonal |                                |

**Target/Specificity**

Detects the N-terminal domain of PUMA ~23kDa. Detects ~16kDa bands sometimes, possibly corresponding to PUMA $\beta$ .

**Other Names**

BBC3 Antibody, BCL2 binding component 3 Antibody, p53 up regulated modulator of apoptosis Antibody, PUMA/JFY1 Antibody

**Immunogen**

N-terminal amino acids of human PUMA

**Purification**

Protein A Purified

Storage **-20°C**

**Storage Buffer**

PBS, 0.02% sodium azide

Shipping Temperature

**Blue Ice or 4°C**

**Certificate of Analysis**

2  $\mu$ g/ml of SPC-165 was sufficient for detection of PUMA in 20  $\mu$ g of human K562 cell lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

**Cellular Localization**

Mitochondrion

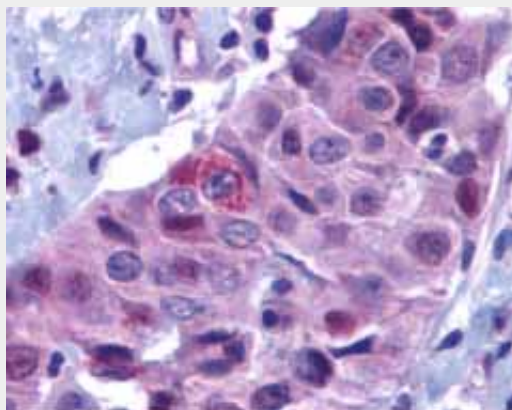
**PUMA (NT) Antibody - Protocols**

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

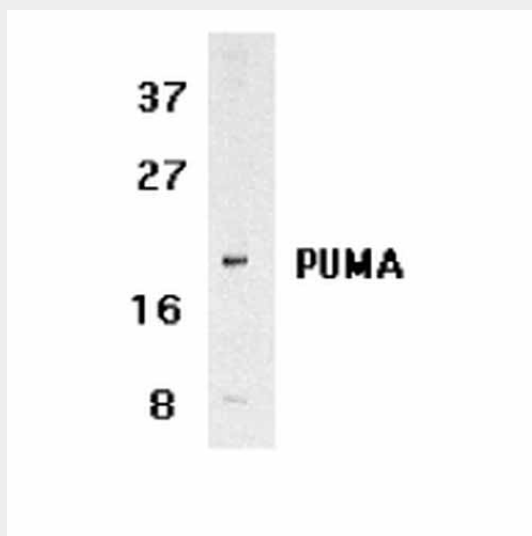
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

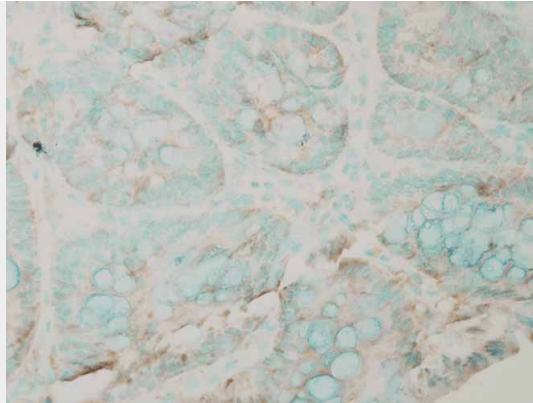
#### **PUMA (NT) Antibody - Images**



Immunohistochemistry analysis using Rabbit Anti-PUMA Polyclonal Antibody (ASM10417). Tissue: breast carcinoma. Species: Human. Primary Antibody: Rabbit Anti-PUMA Polyclonal Antibody (ASM10417) at 1:100.



Western blot analysis of Human K562 cells lysates showing detection of PUMA protein using Rabbit Anti-PUMA Polyclonal Antibody (ASM10417). Primary Antibody: Rabbit Anti-PUMA Polyclonal Antibody (ASM10417) at 1:500.



Immunohistochemistry analysis using Rabbit Anti-PUMA Polyclonal Antibody (ASM10417). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Rabbit Anti-PUMA Polyclonal Antibody (ASM10417) at 1:10000 for 12 hours at 4°C. Secondary Antibody: Biotin Goat Anti-Rabbit at 1:2000 for 1 hour at RT. Counterstain: Methyl Green at 200uL for 2 min at RT.

### **PUMA (NT) Antibody - Background**

Apoptosis is related to many diseases and development. The p53 tumor-suppressor protein induces apoptosis through transcriptional activation of several genes. A novel p53 inducible pro-apoptotic gene was identified recently and designated PUMA (for p53 up-regulated modulator of apoptosis) and bbc3 (for Bcl-2 binding component 3) in human and mouse (1-3). PUMA/bbc3 is one of the pro-apoptotic Bcl-2 family members including Bax and Noxa, which are also transcriptional targets of p53. The PUMA gene encodes two BH3 domain-containing proteins termed PUMA- $\alpha$  and PUMA- $\beta$  (1). 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.

### **PUMA (NT) Antibody - References**

1. Nakano K., Vousden K.H. (2001) Mol Cell. 2001; 7(3): 683-94.
2. Yu J., Zhang L., Hwang P.M., Kinzler K.W., Vogelstein B. (2001) Mol Cell. 7(3): 673-82.
3. Han J., et al. (2001) Proc Natl Acad Sci U S A. 98(20): 11318-23.