

## Product datasheet for **TA319892**

### **Bcl2 Binding component 3 (BBC3) Mouse Monoclonal Antibody [Clone ID: 10D4G7]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	10D4G7
Applications:	WB
Recommended Dilution:	WB: 2.5 - 5 ug/mL
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant protein corresponding to amino acids 76 - 170 of human PUMA-alpha.
Formulation:	PUMA Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	PUMA Monoclonal Antibody is immunoaffinity chromatography purified IgG.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	BCL2 binding component 3
Database Link:	<a href="#">NP_001120712</a> <a href="#">Entrez Gene 317673 RatEntrez Gene 27113 Human Q9BXH1</a>

**Background:** PUMA Monoclonal Antibody: 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 upregulated modulator of apoptosis) and bbc3 (for Bcl-2 binding component 3) in human and mouse. 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 $\beta$ . 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.



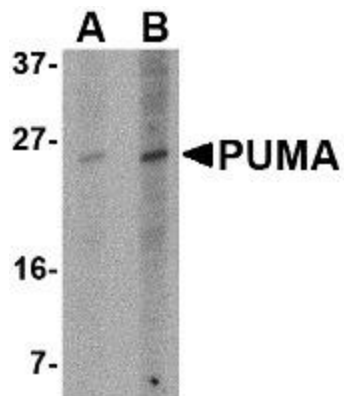
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Synonyms: JFY-1; JFY1; PUMA

Protein Families: Druggable Genome

Protein Pathways: Huntington's disease, p53 signaling pathway

### Product images:



Western blot analysis of PUMA expression in K562 cell lysate with PUMA antibody at (A) 2.5 and (B) 5 ug/mL.