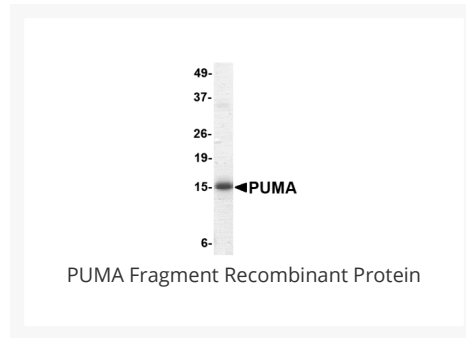




PUMA Fragment Recombinant Protein

Cat. No.: 95-102



Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	aa. 76 - 170
FUSION TAG:	Fusion Partner: His-tag and strepII-tag at N-terminus
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	This recombinant protein can be used for WB and ELISA. For research use only.
PREDICTED MOLECULAR WEIGHT:	15 kDa (Calculated)

Ψ Properties

PURITY:	~95%
PHYSICAL STATE:	Liquid
BUFFER:	1X PBS containing 0.1% SDS and 0.02% NaN ₃
STORAGE CONDITIONS:	Store in working aliquots at -70 °C. Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

OFFICIAL SYMBOL:	BBC3
ALTERNATE NAMES:	PUMA Antibody : JFY1, PUMA, JFY-1
ACCESSION NO.:	Q9BXH1
PROTEIN GI NO.:	56748610
GENE ID:	27113

Background and References

BACKGROUND:	<p>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 (1-3). PUMA 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-α and PUMA-β (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. This PUMA recombinant protein is recognized by several ProSci PUMA monoclonal antibodies, but not the two polyclonal antibodies (PSI # 3041 and 3043).</p>
REFERENCES:	<p>1) Nakano K, Vousden KH. PUMA, a novel proapoptotic gene, is induced by p53. <i>Mol Cell.</i> 2001; 7:683-94.</p> <p>2) Yu J, Zhang L, Hwang PM, Kinzler KW, Vogelstein B. PUMA induces the rapid apoptosis of colorectal cancer cells. <i>Mol Cell.</i> 2001; 7:673-82.</p> <p>3) Han J, Flemington C, Houghton AB, Gu Z, Zambetti GP, Lutz RJ, Zhu L, Chittenden T. Expression of bbc3, a pro-apoptotic BH3-only gene, is regulated by diverse cell death and survival signals. <i>Proc Natl Acad Sci U S A.</i> 2001; 98:11318-23.</p>

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