Datasheet for ABIN500559

anti-PUMA antibody (N-Term)

3 Images

Go to Product page

Overview

Quantity:	0.1 mg
Target:	PUMA (BBC3)
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PUMA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Synthetic peptide corresponding to 14 amino acids near the amino terminus of Human PUMA-alpha. .Remarks: This sequence is identical between alpha and beta forms of the PUMA proteins.
Isotype:	IgG
Specificity:	This antibody detects PUMA at N-term.
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Purification:	Peptide Affinity Chromatography

Target Details

Target:	PUMA (BBC3)

Target Details

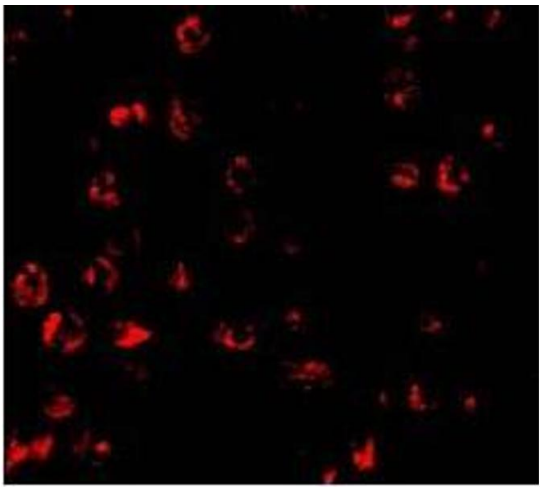
Alternative Name:	PUMA (BBC3 Products)
Background:	Apoptosis is related to many diseases and development. The p53 tumor-suppressor protein induces apoptosis through transcriptional activation of several genes. A novel p53 inducible pro-apoptotic gene was identified recently and designated PUMA (for p53 upregulated 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.Synonyms: BBC3, Bcl-2-binding component 3, JFY-1, p53 up-regulated modulator of apoptosis
Gene ID:	27113
NCBI Accession:	NP_055232
UniProt:	Q9BXH1
Pathways:	p53 Signaling, Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	ELISA. Western blot: 2 to 4 µg/mL, K562 cell lysate can be used as a positive control and a band atapproximately 23 kDa can be detected. Immunohistochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

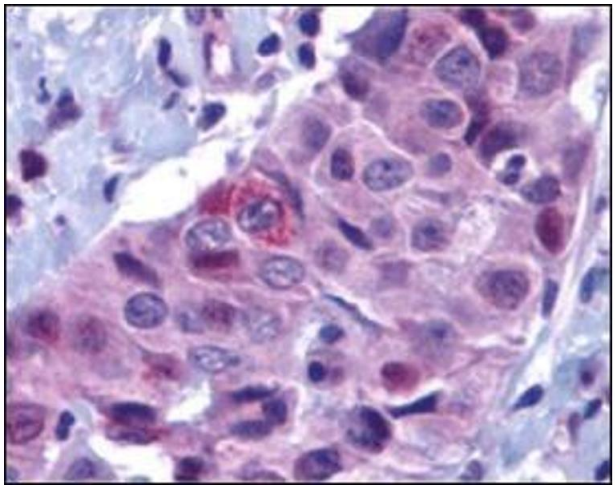
Handling

Buffer:	PBS, 0.02 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



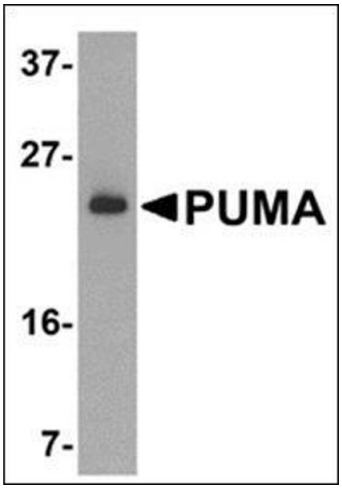
Immunofluorescence

Image 1. Immunofluorescence of PUMA in K562 cells with PUMA antibody at 10 ug/ml



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of PUMA in human breast carcinoma with PUMA antibody at 10 µg/ml.



Western Blotting

Image 3. Western blot analysis of PUMA expression in K562 cell lysate with PUMAat 2 µg /ml.

