Datasheet for ABIN361754

anti-PUMA antibody (N-Term)

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Overview

Quantity:	100 µg
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 (IHC)

Product Details

Immunogen:	N-terminal amino acids of human PUMA
Specificity:	Detects the N-terminal domain of PUMA ~23 kDa. Detects ~16 kDa bands sometimes, possibly corresponding to PUMAβ.
Cross-Reactivity:	Fish, Human, Rainbow Trout, Rat, Salmon
Purification:	Protein A Purified

Target Details

Target:	PUMA (BBC3)
Alternative Name:	PUMA (BBC3 Products)
Background:	Apoptosis is related to many diseases and development. The p53 tumor-suppressor protein

Target Details

	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-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.
Gene ID:	27113
NCBI Accession:	NP_001120712
UniProt:	Q9BXH1
Pathways:	p53 Signaling, Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	• WB (1:500) • IHC (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	2 µg/ml of ABIN361753 was sufficient for detection of PUMA in 20 µg of human K562 cell lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

Handling

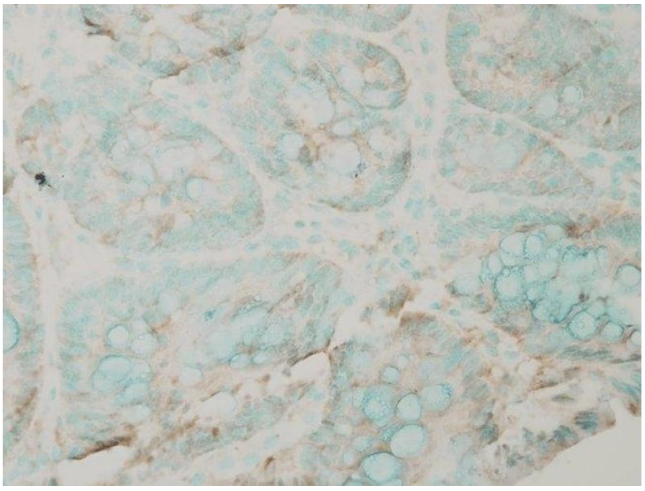
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 0.02 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C

Publications

Product cited in:

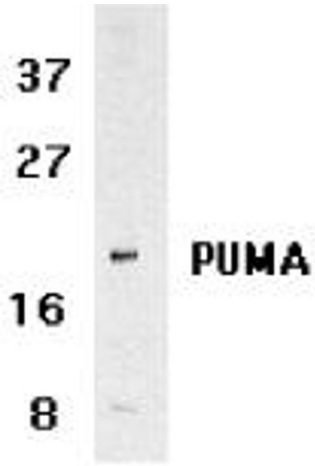
Yang, Xu, Li, Duan, Fu, Zhang, Zhao, Qiao, Chen, Geng, Che, Cao, Wang, Zhang, Long, He, Cui, Chen, Wang, Liu: "Cloning and characterization of a novel intracellular protein p48.2 that negatively regulates cell cycle progression." in: **The international journal of biochemistry & cell biology**, Vol. 41, Issue 11, pp. 2240-50, (2009) (PubMed).

Images



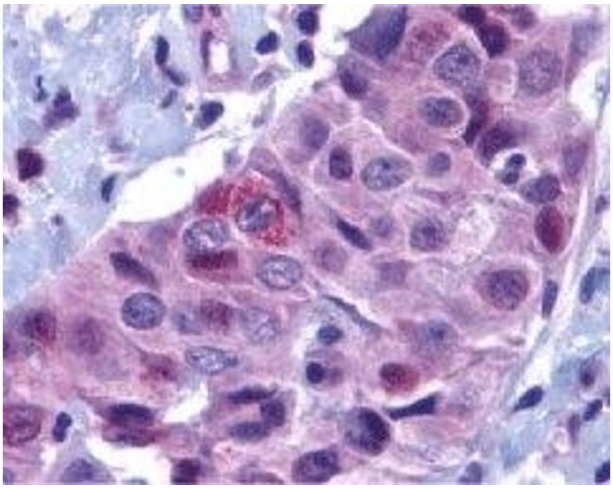
Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-PUMA Polyclonal Antibody (ABIN361753 and ABIN361754). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Rabbit Anti-PUMA Polyclonal Antibody (ABIN361753 and ABIN361754) 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 200 µLfor 2 min at RT.



Western Blotting

Image 2. PUMA (NT), in K562 human cell lysate.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Rabbit Anti-PUMA Polyclonal Antibody (ABIN361753 and ABIN361754). Tissue: breast carcinoma. Species: Human. Primary Antibody: Rabbit Anti-PUMA Polyclonal Antibody (ABIN361753 and ABIN361754) at 1:100.