

Rabbit anti-Human PUMA Polyclonal Antibody | anti-BBC3 antibody

PUMA Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA10934	Rabbit	Human	ELISA, Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

PUMA; Polyclonal Antibody; PUMA Antibody; JFY1; JFY-1; Bcl-2-binding component 3; BCL2 binding component 3; anti-BBC3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	PUMA Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	193
Applicable Applications for anti-BBC3 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	PUMA antibody can be used for detection of PUMA by Western blot at 2 mug/mL. Antibody can also detect PUMA by immunohistochemistry at 10 mug/mL. For immunofluorescence start at 10 mug/mL. Knockdown (Knockout, KO validated) Antibody
Conjugate	Unconjugated
Immunogen	PUMA antibody was raised against a synthetic peptide corresponding to 14 amino acids near the amino terminus of human PUMA-a. This sequence is identical between a and b forms of the PUMA proteins.
Buffer	PUMA Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	PUMA antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



IF (Immunofluorescence)

Figure 10 Immunofluorescence images of PUMA in the P14 rat retina (Wakabayashi et al., 2012) PUMA expression in the rat retina detected by anti-PUMA antibodies (3043). The specimens were counterstained with Hoechst 33258 to visualize nuclei (+DNA). GCL, ganglion cell layer; INL, inner nuclear layer; IPL, inner plexiform layer; ONL, outer nuclear layer; OPL, outer plexiform layer; P, postnatal day.



WB (Western Blot)

Figure 9 Induced Expression of PUMA in MCF7 cells (Wade et al., 2008) Western analysis of MCF7 treated with the indicated dose of Nutlin-3a or ABT-737 for 24h. Note that Puma is induced following Nutlin-3a treatment in these cells and PUMA expression was detected by anti-PUMA antibodies (3043)



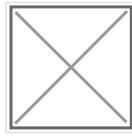
WB (Western Blot)

Figure 8 KO Validation of PUMA (Ambacher et al., 2012) Puma expression is induced by potassium withdrawal in cerebellar granule neurons. After 7 days in culture CGNs were either maintained in media containing 25 mM potassium (K25) or switched to low potassium medium containing 5 mM potassium (K5). PUMA protein levels were analyzed by western blot with anti-PUMA antibodies (3043). PUMA expression was not detected in PUMA KO mice and was increased after treatment in WT.



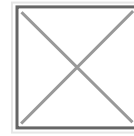
WB (Western Blot)

Figure 7 KO Validation of PUMA (Michalak et al., 2008) Western blot analysis of thymocytes from wt, noxa knockout, puma knockout and noxa/puma double knockout mice cultured for 7 h in the presence or absence of 2.5 Gy g-irradiation. PUMA expression was not detected in puma KO and double KO mice with anti-PUMA antibodies (3043).



IF (Immunofluorescence)

Figure 6 Immunofluorescence Validation of PUMA Immunofluorescent analysis of 4% paraformaldehyde-fixed K562 cells labeling PUMA with 3043 at 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red). Image showing cytosol staining on K562 cells



IHC (Immunohistochemistry)

Figure 5 Immunohistochemistry Validation of PUMA Immunohistochemical analysis of 4% paraformaldehyde-fixed human breast tissue labeling PUMA with 3043 at 2.5 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/250 dilution. Image showing both cytosol staining on K562 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-BBC3 antibody

PUMA 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15193488
NCBI GeneID	27113
NCBI Accession #	NP_055232
NCBI GenBank Nucleotide #	NM_014417.4
UniProt Accession #	Q96PG8; O00171; Q96PG9; B9EGI3; Q9BXH1
Molecular Weight	23 kDa
NCBI Official Full Name	bcl-2-binding component 3 isoform 4
NCBI Official Synonym Full Names	BCL2 binding component 3
NCBI Official Symbol	BBC3
NCBI Official Synonym Symbols	JFY1; PUMA; JFY-1
NCBI Protein Information	bcl-2-binding component 3; p53 up-regulated modulator of apoptosis
UniProt Protein Name	Bcl-2-binding component 3
UniProt Gene Name	BBC3
UniProt Synonym Gene Names	PUMA
UniProt Entry Name	BBC3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/puma-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/10934>