

Anti-PUMA/BBC3 Antibody

Catalog Number: PA1313

About BBC3

The p53 upregulated modulator of apoptosis, or PUMA, is a pro-apoptotic member of the Bcl-2 protein family. The PUMA gene is located at 19q. PUMA transcript is contained within 4 exons, with the presumptive initiation codon in exon 2. The predicted 193-amino acid PUMA protein shares 91% amino acid identity with the murine sequence. Bcl-2 family members can form hetero- or homodimers, and they act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. The expression of PUMA is regulated by the tumor suppressor p53, and PUMA has been shown to be involved in p53-mediated apoptosis. Additionally, PUMA encodes 2 BH3 domain-containing proteins, PUMA-alpha and PUMA-beta, that are produced through the use of an alternative first exon and are induced in cells following p53 activation. Furthermore, PUMA couples the nuclear and cytoplasmic proapoptotic functions of p53.

Overview

Product Name	Anti-PUMA/BBC3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PUMA/BBC3 Antibody catalog # PA1313. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9BXH1

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PUMA, identical to the related rat and mouse sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p>

Anti-PUMA/BBC3 Antibody (PA1313) Images



Anti-PUMA antibody, PA1313, Western blotting
All lanes: Anti PUMA(PA1313) at 0.5ug/ml
Lane 1: HELA Whole Cell Lysate at 40ug
Lane 2: Rat Kidney Tissue Lysate at 50ug
Predicted bind size: 21KD
Observed bind size: 21KD

2 Publications Citing This Product

1. PubMed ID: 25630785, Nerve growth factor reduces apoptotic cell death in rat facial motor neurons after facial nerve injury
2. PubMed ID: 21248471, Zhao Y, Wu S, Wu J, Jia P, Gao S, Yan X, Wang Y. Cancer Biol Ther. 2011 Jan 1;11(1):95-107. Doi: 10.4161/Cbt.11.1.13960. Introduction Of Hypoxia-Targeting P53 Fusion Protein For The Selective Therapy Of Non-Small Cell Lung Cancer.

Visit bosterbio.com/anti-puma-antibody-pa1313-boster.html to see all 2 publications.

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