

Product datasheet for **AP23404PU-N**

Bcl2 Binding component 3 (BBC3) (C-term) Rabbit Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | Western blot: 1 µg/ml. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | A synthetic peptide corresponding to a sequence at the C-terminal of human PUMA |
| Specificity: | This antibody detects PUMA (C-term). No cross reactivity with other proteins. |
| Formulation: | 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ N State: Aff - Purified State: Lyophilized Ig fraction |
| Reconstitution Method: | 0.2ml of distilled water will yield a concentration of 500µg/ml. |
| Purification: | Immunogen affinity purified |
| Conjugation: | Unconjugated |
| Storage: | Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | BCL2 binding component 3 |
| Database Link: | <u>Entrez Gene 170770 Mouse</u> <u>Entrez Gene 317673 Rat</u> <u>Entrez Gene 27113 Human</u> <u>Q96PG8</u> |



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| Background: | The p53 upregulated modulator of apoptosis, or PUMA, is a pro-apoptotic member of the Bcl-2 protein family. ^{1, 2} The PUMA gene is located at 19q. ³ 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. ⁴ Furthermore, PUMA couples the nuclear and cytoplasmic proapoptotic functions of p53. ⁵ |
| Synonyms: | BBC3, JFY-1 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Huntington's disease, p53 signaling pathway |