# BBC3 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | BBC3, Polyclonal Antibody |
| **Full Product Name** | BBC3 (Bcl-2-Binding Component 3, JFY-1, p53 Up-Regulated Modulator of Apoptosis, BBC3, PUMA) (AP) |
| **Product Gene Name** | anti-BBC3 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human BBC3. Species Crossreactivity: human |
| **Preparation and Storage** | Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 23 kDa |
| **OMIM** | 605854 |
| **3D Structure** | ModBase 3D Structure for Q96PG8 |
| **Immunogen** | KLH conjugated synthetic peptide corresponding to aa158-192 from human BBC3. |
| **Conjugate** | AP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-BBC3 antibody** | Antibodies; Apoptosis |
| **Applications Tested/Suitable for anti-BBC3 antibody** | Western Blot (WB) |
| **Application Notes for anti-BBC3 antibody** | WB: 1:2000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-BBC3 antibody** | MBS6454424 is an antibody targeting BBC3. Also known as BBC3 (Bcl-2-Binding Component 3, JFY-1, p53 Up-Regulated Modulator of Apoptosis, BBC3, PUMA) (AP). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-BBC3 antibody** | Nakano K., et al. Mol. Cell 7:683-694(2001). Grimwood J., et al. Nature 428:529-535(2004). Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. |
| **Other Notes** | Small volumes of anti-BBC3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BBC3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 15193488 |

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| **NCBI GeneID** | 27113 |
| **NCBI Accession #** | NP_055232 |
| **UniProt Primary Accession #** | Q96PG8 |
| **UniProt Secondary Accession #** | O00171; Q96PG9; B9EGI3 |
| **UniProt Related Accession #** | Q96PG8; Q9BXH1 |
| **GenBank Nucleotide #** | NM_014417.4 |
| **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 |
| **UniProt Protein Name** | Bcl-2-binding component 3 |
| **UniProt Synonym Protein Names** | JFY-1; p53 up-regulated modulator of apoptosis |
| **Protein Family** | Bcl-2-binding component |
| **UniProt Gene Name** | BBC3 |
| **UniProt Synonym Gene Names** | PUMA |
| **UniProt Entry Name** | BBC3_HUMAN |
| **NCBI Protein Information** | bcl-2-binding component 3; p53 up-regulated modulator of apoptosis |
| **NCBI Summary for BBC3** | This gene encodes a member of the BCL-2 family of proteins. This family member belongs to the BH3-only pro-apoptotic subclass. The protein cooperates with direct activator proteins to induce mitochondrial outer membrane permeabilization and apoptosis. It can bind to anti-apoptotic Bcl-2 family members to induce mitochondrial dysfunction and caspase activation. Because of its pro-apoptotic role, this gene is a potential drug target for cancer therapy and for tissue injury. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011] |
| **UniProt Comments for BBC3** | BBC3B: Essential mediator of p53/TP53-dependent and p53/TP53- independent apoptosis. Isoform 3 fails to show any growth- inhibitory or apoptotic activity. Induced by DNA damage, glucocorticoid treatment, growth factor deprivation and p53/TP53. {ECO:0000269\|PubMed:11463392}. Isoform 3 does not interact with BCL2. 4 isoforms of the human protein are produced by alternative splicing<br><br>Protein type: Apoptosis; Mitochondrial<br><br>Chromosomal Location of Human Ortholog: 19q13.3-q13.4<br><br>Cellular Component: mitochondrial outer membrane; mitochondrion; cytosol<br><br>Molecular Function: protein binding<br><br>Biological Process: caspase activation; release of cytochrome c from mitochondria; positive regulation of protein homooligomerization; apoptosis; positive regulation of neuron apoptosis; release of sequestered calcium ion into cytosol; reduction of endoplasmic reticulum calcium ion concentration; determination of adult life span; response to DNA damage stimulus; negative regulation of growth |
| **Research Articles on BBC3** | **1.** c-Jun transactivates Puma gene expression to promote osteoarthritis. |
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