

## Product datasheet for **TA336553**

### **Bcl2 Binding component 3 (BBC3) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1 ug/ml, IF: 1:500 - 1:2000
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide made to an N-terminal portion of human PUMA (within residues 1-100). [NCBI Sequence NP_001120712]
Formulation:	Tris-citrate/phosphate, pH 7, 0.1% Sodium azide. Store at 4C. Do not freeze.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	24 kDa
Gene Name:	BCL2 binding component 3
Database Link:	<a href="#">NP_055232</a> <a href="#">Entrez Gene 170770 Mouse</a> <a href="#">Entrez Gene 27113 Human</a> <a href="#">Q96PG8</a>



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**Background:**

PUMA (p53 upregulated modulator of apoptosis) belongs to pro-apoptotic members of Bcl2 family's BH3-only subgroup, and besides its most critical role as mediator of p53/TP53-dependent/-independent apoptosis, it acts as a regulator of ER stress-induced neuronal apoptosis also. PUMA is expressed ubiquitously and predominately localizes to mitochondria where it execute induction of cytochrome c release. PUMA mediates apoptosis via direct binding with anti-apoptotic members of the Bcl-2 family and is capable of interacting with MCL1, BCL2A1, BCL2 and BCL2L1/BCL-XL. PUMA binding to inhibitory members of Bcl-2 family (Bcl-2-like proteins) leads to Bax and/or Bak displacement mediated activation and formation of pore-like structures over mitochondrial membrane, which permeabilizes the outer mitochondrial membrane, resulting in mitochondrial dysfunction and caspase activation. PUMA is induced by p53, DNA damage, glucocorticoid treatment, deprivation of growth factors etc. and through ER stress in a DDIT3/CHOP-dependent manner. PUMA has been reported to involve in multiple physiological and pathological processes, including immune response, cancer, neurodegenerative diseases and bacterial as well as viral infections.

**Synonyms:**

JFY-1; JFY1; PUMA

**Note:**

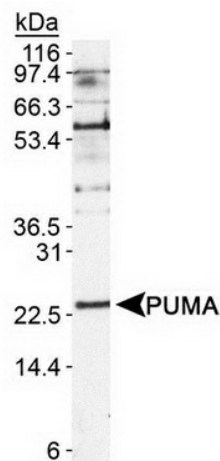
This PUMA antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot, where a band is seen at ~24 kDa. In ICC/IF mitochondrial staining was observed.

**Protein Families:**

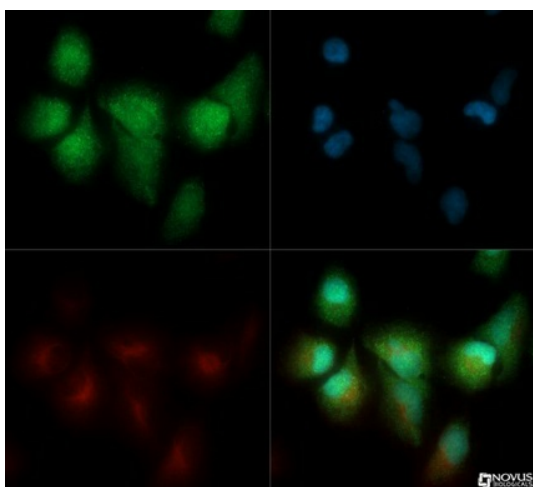
Druggable Genome

**Protein Pathways:**

Huntington's disease, p53 signaling pathway

**Product images:**

Western Blot: PUMA Antibody TA336553 - Detection of PUMA in HL-60 whole cell lysates using TA336553.



Immunocytochemistry/Immunofluorescence:  
PUMA Antibody TA336553 - PUMA antibody was  
tested in HeLa cells with DyLight 488 (green).  
Nuclei and alpha-tubulin were counterstained  
with DAPI (blue) and Dylight 550 (red).