

**Anti-PUMA BBC3 Rabbit Monoclonal Antibody**  
Catalog # ABO13376

**Specification**

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**Anti-PUMA BBC3 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, FC
Primary Accession	<a href="#">Q9BXH1</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-PUMA BBC3 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-PUMA BBC3 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 27113

**Other Names**

Bcl-2-binding component 3, isoforms 1/2, JFY-1, p53 up-regulated modulator of apoptosis, BBC3, PUMA

**Calculated MW**

20532 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>FC 1:50

**Subcellular Localization**

Mitochondrion. Localized to the mitochondria in order to induce cytochrome c release.

**Tissue Specificity**

Ubiquitously expressed..

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol

**Immunogen**

A synthesized peptide derived from human PUMA

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated**

freeze-thaw cycles.

## Anti-PUMA BBC3 Rabbit Monoclonal Antibody - Protein Information

**Name** BBC3

**Synonyms** PUMA

### Function

Essential mediator of p53/TP53-dependent and p53/TP53- independent apoptosis (PubMed:<a href="http://www.uniprot.org/citations/11463391" target="\_blank">11463391</a>, PubMed:<a href="http://www.uniprot.org/citations/23340338" target="\_blank">23340338</a>). Promotes partial unfolding of BCL2L1 and dissociation of BCL2L1 from p53/TP53, releasing the bound p53/TP53 to induce apoptosis (PubMed:<a href="http://www.uniprot.org/citations/23340338" target="\_blank">23340338</a>). Regulates ER stress-induced neuronal apoptosis (By similarity).

### Cellular Location

Mitochondrion Note=Localized to the mitochondria in order to induce cytochrome c release

### Tissue Location

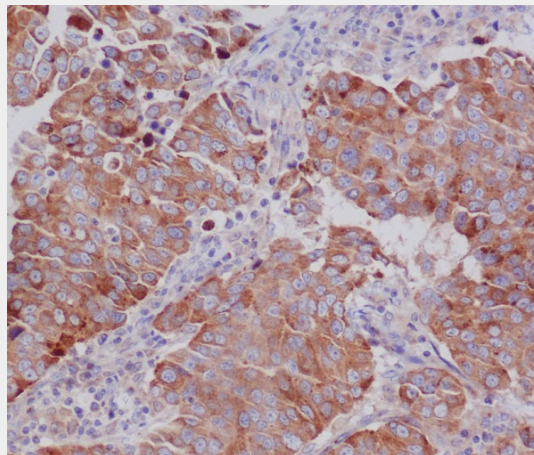
Ubiquitously expressed.

## Anti-PUMA BBC3 Rabbit Monoclonal Antibody - Protocols

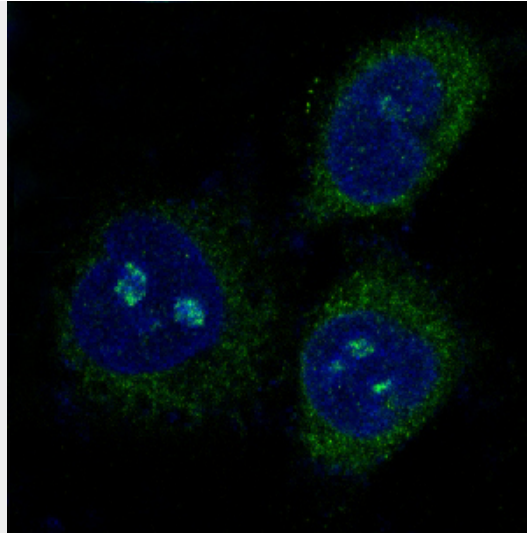
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-PUMA BBC3 Rabbit Monoclonal Antibody - Images



Immunohistochemical analysis of paraffin-embedded human breast cancer, using PUMA Antibody.



Immunofluorescent analysis of HeLa cells, using PUMA Antibody.

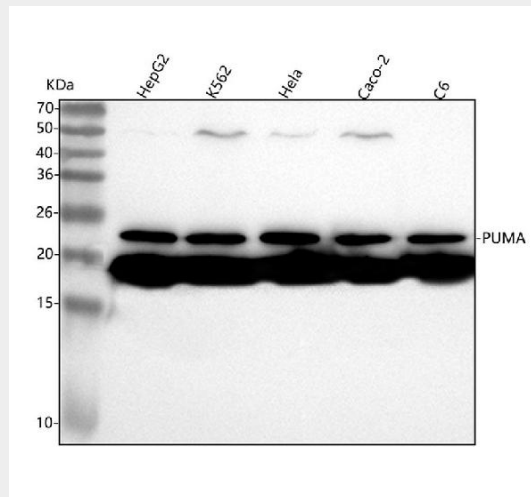
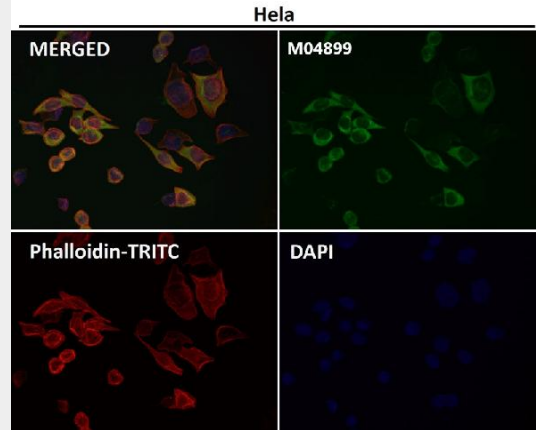


Figure 1. Western blot analysis of PUMA using anti-PUMA antibody (M04899).

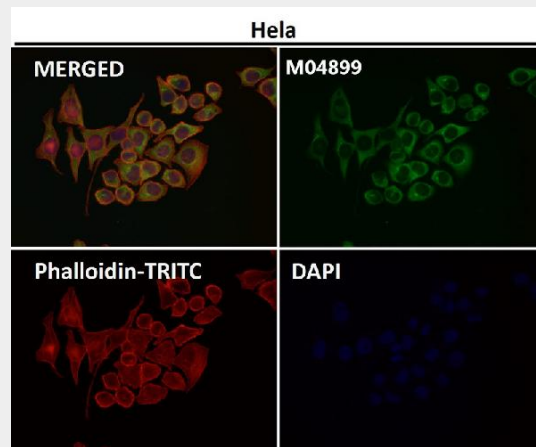
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

- Lane 1: human HepG2 whole cell lysates,
- Lane 2: human K562 whole cell lysates,
- Lane 3: human HeLa whole cell lysates,
- Lane 4: human CACO-2 whole cell lysates,
- Lane 5: rat C6 whole cell lysates.

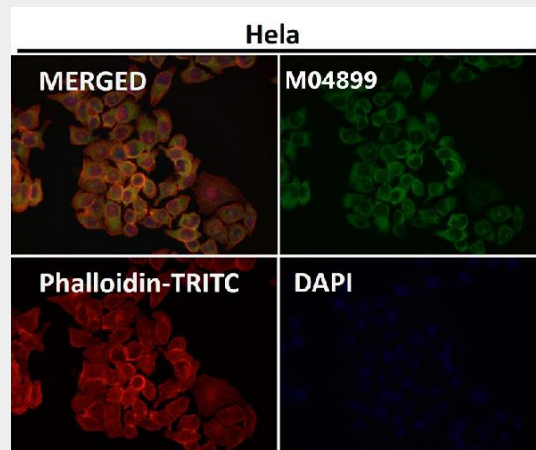
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PUMA antigen affinity purified monoclonal antibody (Catalog # M04899) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PUMA at approximately 21 kDa. The expected band size for PUMA is at 21 kDa.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:150 dilution



Immunofluorescent analysis using the Antibody at 1:500 dilution.