10320 Camino Santa Fe, Suite G
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Anti-PUMA BBC3 Rabbit Monoclonal Antibody

Catalog # ABO13376

Specification

Anti-PUMA BBC3 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC, IF, ICC, FC**
Primary Accession	Q9BXH1
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
IHC 1:50-1:200
ICC/IF 1:50-1:200
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:11463391, PubMed:23340338). Promotes partial unfolding of BCL2L1 and dissociation of BCL2L1 from p53/TP53, releasing the bound p53/TP53 to induce apoptosis (PubMed:23340338). Regulates ER stress-induced neuronal apoptosis (By similarity).

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

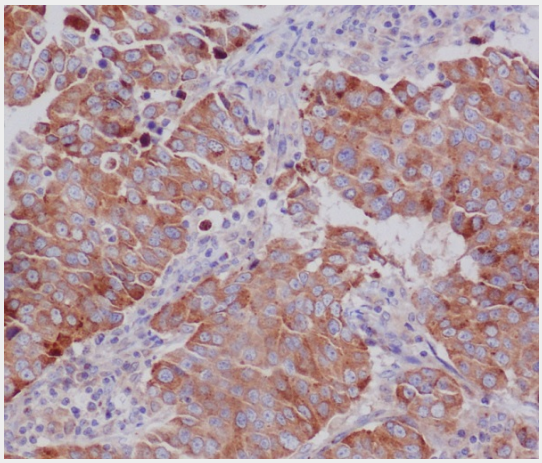
Tissue Location
Ubiquitously expressed.

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 Cytomety
- Cell Culture

Anti-PUMA BBC3 Rabbit Monoclonal Antibody - Images



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

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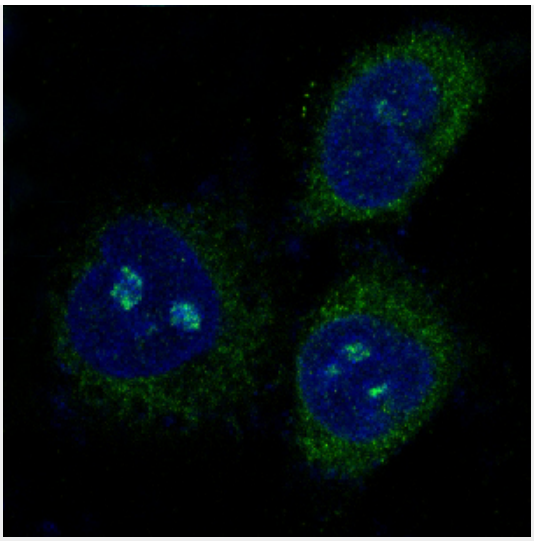

Immunofluorescent analysis of Hela cells, using PUMA Antibody.

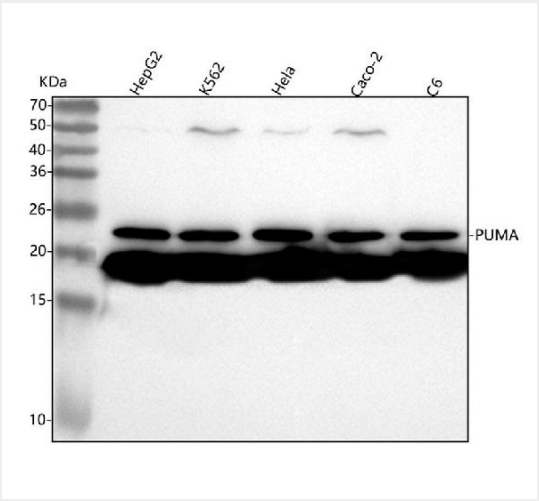

Figure 1. Western blot analysis of PUMA using anti-PUMA antibody (M04899).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole 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.

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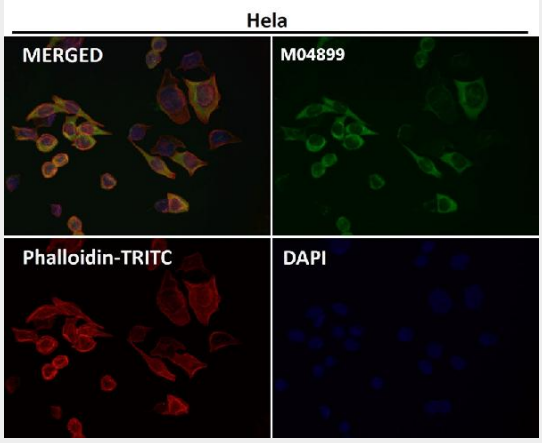
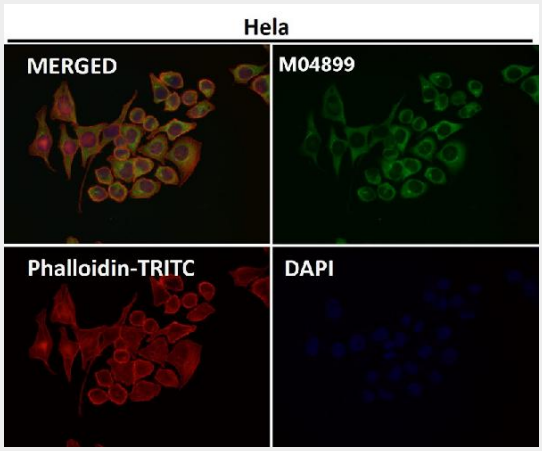
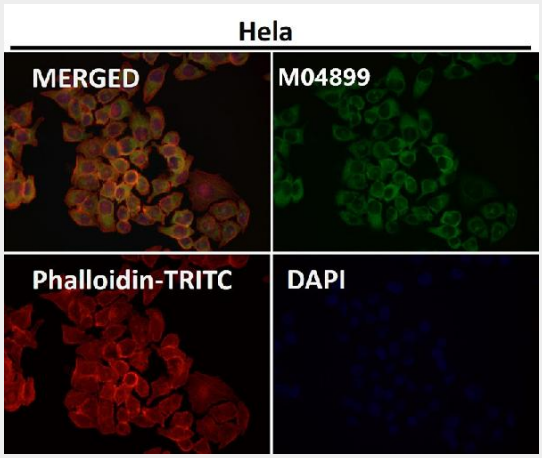


Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:150 dilution



Immunofluorescent analysis using the Antibody at 1:500 dilution.