abcam

Product datasheet

Anti-PUMA antibody ab9643

12 Abreviews 121 References 画像数 6

製品の概要

製品名	Anti-PUMA antibody
製品の詳細	Rabbit polyclonal to PUMA
由来種	Rabbit
特異性	At least 2 isoforms are known to exist; this antibody will detect both isoforms.
アプリケーション	**適用あり:** WB, ICC/IF
種交差性	**交差種:** Mouse, Human
免疫原	Synthetic peptide corresponding to Human PUMA aa 150-250 (C terminal). Run BLAST with ExPASy Run BLAST with NCBI

特記事項

Apoptosis is related to many diseases and development. The p53 tumor-suppressor protein induces apoptosis through transcriptional activation of several genes. A novel p53 inducible pro-apoptotic gene was identified recently and designated PUMA (for p53 upregulated modulator of apoptosis) and bbc3 (for Bcl-2 binding component 3) in human and mouse (1-3). PUMA/bbc3 is one of the pro-apoptotic Bcl-2 family members including Bax and Noxa, which are also transcriptional targets of p53. The PUMA gene encodes two BH3 domain-containing proteins termed PUMA-a and PUMA-b (1). PUMA proteins bind Bcl-2, localize to the mitochondria, and induce cytochrome c release and apoptosis in response to p53. PUMA may be a direct mediator of p53-induced apoptosis.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C.
バッファー	pH: 7.2

	Preservative: 0.02% Sodium azide Constituent: PBS
精製度	Immunogen affinity purified
一次抗体 備考	Apoptosis is related to many diseases and development. The p53 tumor-suppressor protein induces apoptosis through transcriptional activation of several genes. A novel p53 inducible pro-apoptotic gene was identified recently and designated PUMA (for p53 upregulated modulator of apoptosis) and bbc3 (for Bcl-2 binding component 3) in human and mouse (1-3). PUMA/bbc3 is one of the pro-apoptotic Bcl-2 family members including Bax and Noxa, which are also transcriptional targets of p53. The PUMA gene encodes two BH3 domain-containing proteins termed PUMA-a and PUMA-b (1). PUMA proteins bind Bcl-2, localize to the mitochondria, and induce cytochrome c release and apoptosis in response to p53. PUMA may be a direct mediator of p53-induced apoptosis.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab9643の使用に適用されます**

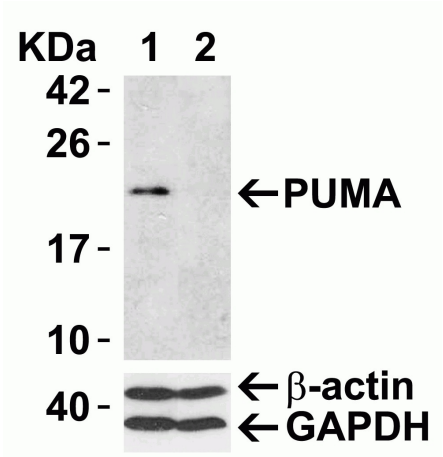
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★☆ (9)	Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 23 kDa. Use at a concentration of 1 - 2 µg/ml. Detects a band of approximately 23 kDa. Can be blocked with **PUMA peptide (180/193) (ab9644)**. A lower band at approximately 16 kDa was detected in MOLT4 and U937 cells, which may represent the PUMA-beta form.
ICC/IF		Use a concentration of 1 µg/ml.

ターゲット情報

機能	Essential mediator of p53-dependent and p53-independent apoptosis.
組織特異性	Ubiquitously expressed.
配列類似性	Belongs to the Bcl-2 family.
細胞内局在	Mitochondrion. Localized to the mitochondria in order to induce cytochrome c release.

画像



Western blot - Anti-PUMA antibody (ab9643)

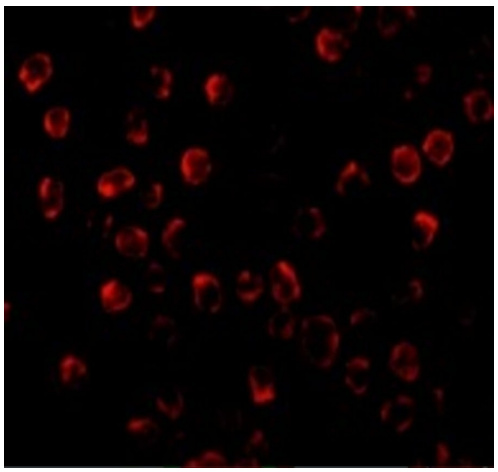
All lanes : Anti-PUMA antibody (ab9643) at 2 µg/ml

Lane 1 : HEK293 cells were transfected with control siRNAs with control siRNAs
Lane 2 : HEK293 cells were transfected with PUMA siRNAs with PUMA siRNA

Lysates/proteins at 15 µg per lane.

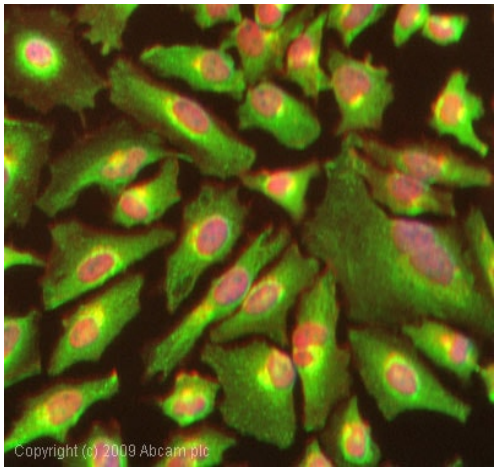
Secondary
All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

Beta-actin (1 µg/mL) and GAPDH (0.02 µg/mL). Incubation time: 1 hour at Room Temperature in 5% NFDM/TBST.



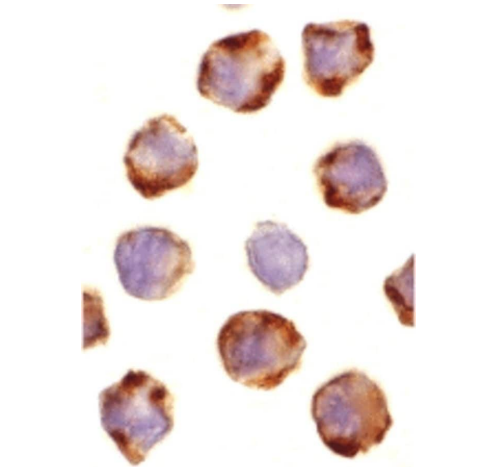
Immunocytochemistry/ Immunofluorescence - Anti-PUMA antibody (ab9643)

Immunofluorescent analysis of 4% paraformaldehydefixed K562 cells labeling PUMA with ab9643 at 2 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red). Image showing cytosol staining on K562 cells.



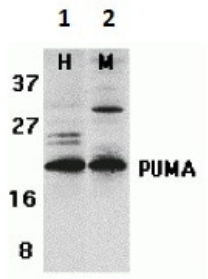
Immunocytochemistry/ Immunofluorescence - Anti-PUMA antibody (ab9643)

ICC/IF image of ab9643 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab9643, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunocytochemistry/ Immunofluorescence - Anti-PUMA antibody (ab9643)

Immunocytochemical analysis of K562 cells labeling PUMA with ab9643 at 1 µg/mL. Cells were fixed with formaldehyde and blocked with 10% serum for 1 hour at room temperature. Antigen retrieval was by heat mediation with a citrate buffer (pH 6.0). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



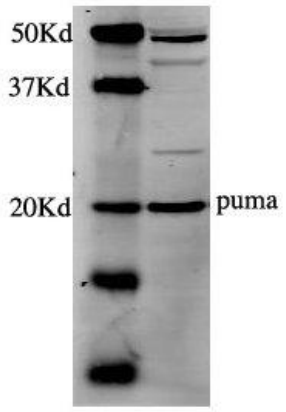
Western blot - Anti-PUMA antibody (ab9643)

All lanes : Anti-PUMA antibody (ab9643) at 2 µg/ml

Lane 1 : K562 cell lysate
Lane 2 : NIH3T3 cell lysate

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution



Western blot - Anti-PUMA antibody (ab9643)
This image is courtesy of an anonymous Abreview

Anti-PUMA antibody (ab9643) at 1/1000 dilution + HeLa whole cell lysate

Secondary
Alexa Fluor 680-conjugated goat anti-rabbit IgG polyclonal at 1/1 dilution

Observed band size: 20 kDa
Additional bands at: 26 kDa (possible non-specific binding), 42 kDa (possible non-specific binding), 50 kDa (possible non-specific binding)

Exposure time: 5 seconds

Blocked with 5% milk for 1 hour.

Incubated with the primary antibody for 18 hours.

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