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BBC3/PUMA Rabbit pAb

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Catalog # AP52311

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BXH1
Reactivity	Rat, Human
Predicted	Pig, Dog, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20532
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BBC3
Epitope Specificity	131-180/193
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion. Note=Localized to the mitochondria in order to induce cytochrome c release.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

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
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

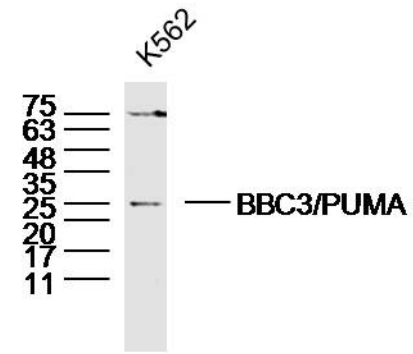
Background

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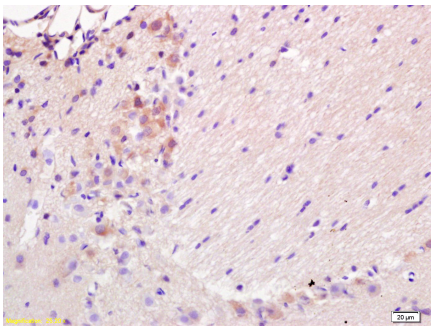
References

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.

Images



Sample: K562 Cell Lysate at 30 ug
Primary: Anti- BBC3 (AP52311) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 21 kD
Observed band size: 25 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-BBC3/PUMA Polyclonal Antibody, Unconjugated(AP52311) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.