



Rabbit Anti-phospho-BNIP3 (Ser95) antibody

SL12875R

Product Name:	phospho-BNIP3 (Ser95)
Chinese Name:	磷酸化促凋亡调节蛋白BNIP3抗体
Alias:	BNIP3 (phospho S95); p-BNIP3 (phospho S95); BCL2 Adenovirus E1B 19kDa Interacting Protein 3; BCL2/adenovirus E1B 19 kDa protein interacting protein 3; BCL2/adenovirus E1B 19 kDa protein-interacting protein 3; BNIP 3; BNIP3; BNIP3_HUMAN; NIP 3; NIP3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Dog,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	22kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human BNIP3 around the phosphorylation site of Ser95:SQ(p-S)EE
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	The adenovirus E1B protein is a viral homolog of the Bcl-2 family of proteins that are involved in regulating cell death. A family of interacting proteins, which are designated

Nip or Bnip and include BNIP-1, BNIP-2, BNIP-3 and Nix, associate with both the E1B protein and Bcl-2 proteins to mediate apoptotic signaling. BNIP-1 contains a hydrophobic transmembrane domain, which enables its localization to the nuclear envelope, endoplasmic reticulum and mitochondria. BNIP-2, (previously designated Nip2 and Nip21 in human and mouse respectively), shares homology with the non-catalytic domain of Cdc42 GTPase-activating protein (Cdc42GAP). Through binding to Cdc42GAP, BNIP-2 enhances the GTPase activity of Cdc42GAP, facilitating the hydrolysis of GTP bound to Cdc42 and thereby, mediating the signaling pathways involving receptor kinases, small GTPases and apoptotic proteins. Nix, which is also designated Nip3L or Bnip3L, is highly related to BNIP-3, and both proteins localize to the mitochondria where they associate with Bcl-2 proteins. BNIP-3 preferentially binds to Bcl-xL and induces apoptosis by suppressing the anti-apoptosis activity of Bcl-xL.

Function:

Apoptosis-inducing protein that, which can overcome BCL2 suppression. May play a role in repartitioning calcium between the two major intracellular calcium stores in association with BCL2.

Subunit:

Homodimer. Binds to BCL2. Interacts with BNIP3L and ACAA2. Also can interact with adenovirus E1B 19 kDa protein or Epstein-Barr virus BHRF1. Interacts (via BH3 domain) with SPATA18 (via coiled-coil domains).

Subcellular Location:

Mitochondrion. Mitochondrion membrane. Coexpression with the E1B 19-kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria.

Similarity:

Belongs to the NIP3 family.

SWISS:

Q12983

Gene ID:

664

Database links:

[Entrez Gene: 664](#)Human

[Entrez Gene: 12176](#)Mouse

[Entrez Gene: 84480](#)Rat

[Omim: 603293](#)Human

[SwissProt: Q12983](#)Human

[SwissProt: O55003](#)Mouse

[Unigene: 144873](#)Human

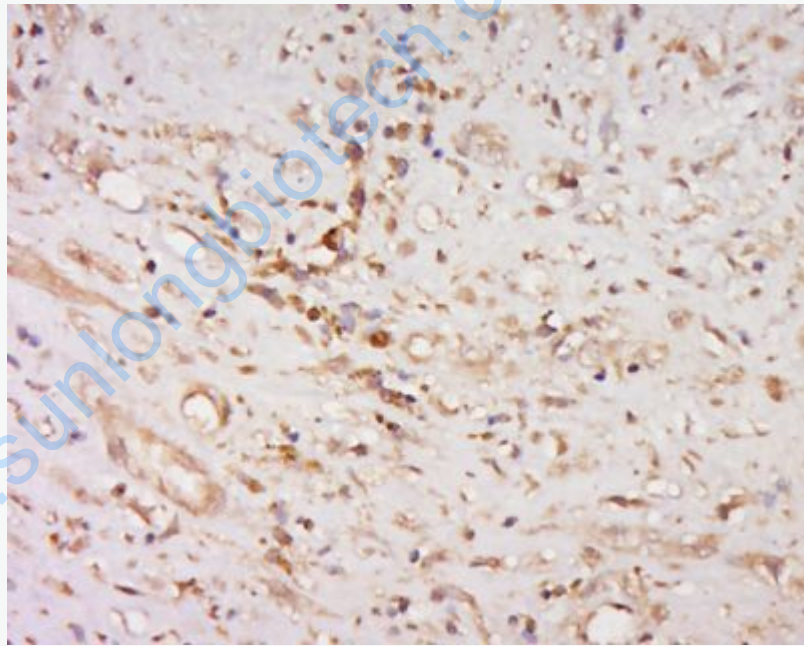
[Unigene: 378890](#)Mouse

[Unigene: 2060](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:

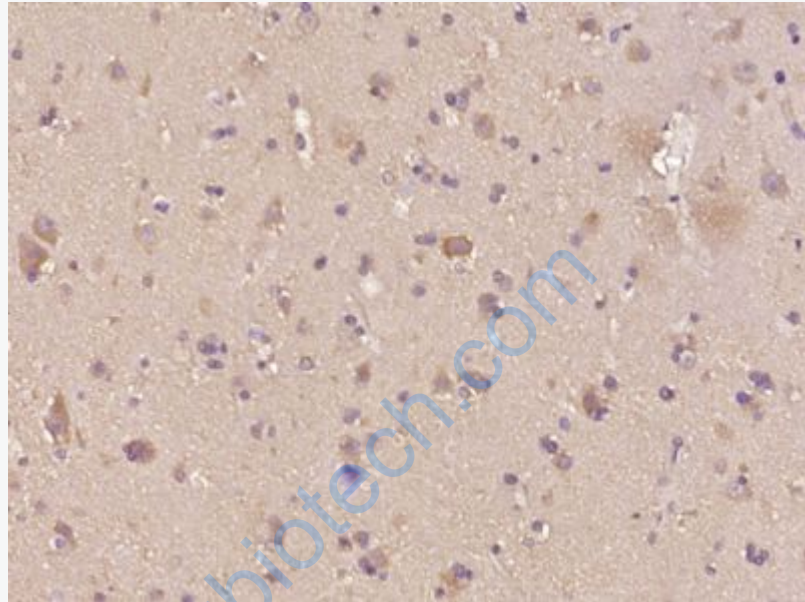


Tissue/cell: human liver carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

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°C for 20 min;

Incubation: Anti-phospho-BNIP3(Ser95)Polyclonal Antibody,

Unconjugated(SL12875R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-BNIP3 (Ser95)) Polyclonal Antibody, Unconjugated (SL12875R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.