Anti-BNIP3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015467

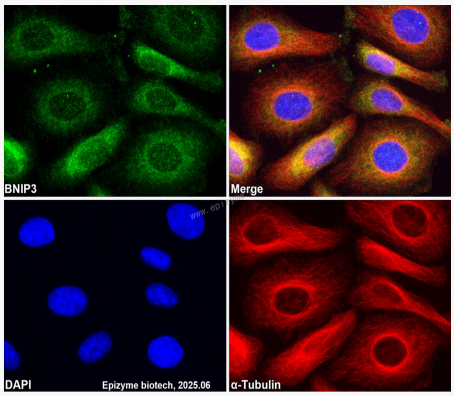
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	50L41J29
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human BNIP3
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-BNIP3 Rabbit mAb [50L41J29] is for research use only and not for use in diagnostic or therapeutic procedures.

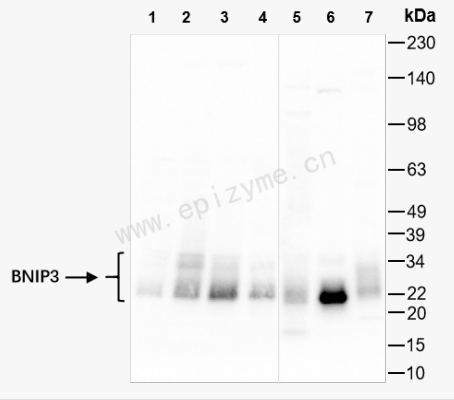
Protein Information

Synonyms	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.
Calculated MW	Calculated MW: 22 kDa; Observed MW: 22-30 kDa
Uniprot ID	Q12983
Gene ID	664
Background	This gene is encodes a mitochondrial protein that contains a BH3 domain and acts as a pro-apoptotic factor. The encoded protein interacts with anti-apoptotic proteins, including the E1B 19 kDa protein and Bcl2. This gene is silenced in tumors by DNA methylation. [provided by RefSeq, Dec 2014]
Cellular Location	Mitochondrion. Mitochondrion membrane. Coexpression with the EIB 19-kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria.

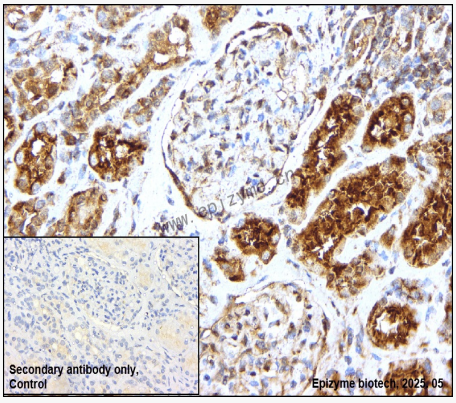
Validation Images



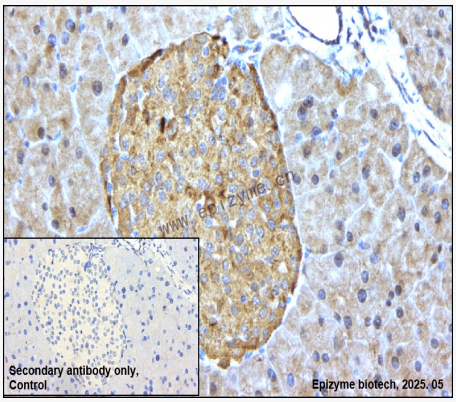
Immunofluorescence - Anti-BNIP3 Rabbit mAb [50L41J29]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015467 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-BNIP3 Rabbit mAb [50L41J29]
All lanes: R015467 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Huh1 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 4: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lane 5: Mouse heart whole tissue lysates
Lane 6: Rat muscle whole tissue lysates
Lane 7: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 22 kDa
Observed band size: 22-30 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-BNIP3 Rabbit mAb [50L41J29]
Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015467 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-BNIP3 Rabbit mAb [50L41J29]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse pancreas tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015467 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.