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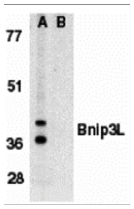
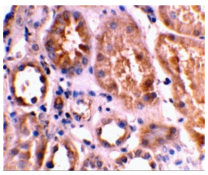
Bnip3L Antibody

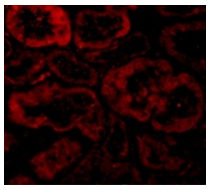
Cat. No.: 2289



Bnip3L Antibody



Immunohistochemical staining of human kidney tissue using Bnip3L antibody at 2 µg/mL.



Immunofluorescence of Bnip3L in Human Kidney tissue with Bnip3L antibody at 10 µg/mL.

Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Mouse: (100%), Bovine: (100%)
IMMUNOGEN:	Bnip3L antibody was raised against a 16 amino acid peptide near the center of human Bnip3L. The immunogen is located within amino acids 60 - 110 of Bnip3L.
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB

APPLICATIONS:	Bnip3L antibody can be used for detection of Bnip3L by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2 µg/mL. For immunofluorescence start at 10 µg/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
SPECIFICITY:	At least two isoforms of Bnip3L are known to exist.
POSITIVE CONTROL:	1) Cat. No. 1204 - K562 Cell Lysate
	2) Cat. No. 1305 - Human Kidney Tissue Lysate
	3) Cat. No. 10-401 - Human Kidney Tissue Slide
PREDICTED MOLECULAR WEIGHT:	Predicted: 24 kDa Observed: 36, 40 kDa

Properties

PURIFICATION:	Bnip3L Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	Bnip3L Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	Bnip3L antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Additional Info

OFFICIAL SYMBOL:	BNIP3L
ALTERNATE NAMES:	Bnip3L Antibody: NIX, BNIP3a, BNIP3A, BNIP3H, NIX, Adenovirus E1B19K-binding protein B5, NIP3L
ACCESSION NO.:	NP_004322
PROTEIN GI NO.:	4138825
GENE ID:	665
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	Bnip3L Antibody: Members in the Bcl-2 family are critical regulators of apoptosis by either inhibiting or promoting cell death. Bcl-2 homology 3 (BH3) domain is a potent death domain. BH3 domain containing pro-apoptotic proteins, including Bad, Bax, Bid, Bik, Hrk, Nip3, and Bim, form a growing subclass of the Bcl-2 family. A novel BH3 domain containing protein was recently identified and designated Bnip3L, Bnip3alpha, and Nix (for Nip3-like protein X). Bnip3L/Bnip3alpha/Nix is a homolog of the E1B 19K/Bcl-2 binding and pro-apoptotic protein Bnip3. Overexpression of Bnip3L induces apoptosis. Bnip3L interacts with and overcomes suppresses by Bcl-2 and Bcl-xL. Bnip3L is localized in mitochondria. The messenger RNA of Bnip3L is ubiquitously expressed in human tissues. Bnip3L and Bnip3 form a new subfamily of the pro-apoptotic mitochondrial proteins.
REFERENCES:	1) Matsushima M, Fujiwara T, Takahashi E, et al. Isolation, mapping, and functional analysis of a novel human cDNA (BNIP3L) encoding a protein homologous to human NIP3. Genes Chromosomes Cancer 1998; 21:230-5
	2) Yasuda M, Han JW, Dionne CA, et al. BNIP3α: a human homolog of mitochondrial proapoptotic protein BNIP3. Cancer Res. 1999; 59:533-7
	3) Chen G, Cizeau J, Vande Velde C, et al. Nix and Nip3 form a subfamily of pro-apoptotic mitochondrial proteins. J. Biol. Chem. 1999; 274:7-10.
	4) Imazu T, Shimizu S, Tagami S, et al. Bcl-2/E1B 19 kDa-interacting protein 3-like protein (Bnip3L) interacts with bcl-2/Bcl-xL and induces apoptosis by altering mitochondrial membrane permeability. Oncogene 1999;18:4523-9.