# ARG54385
# anti-Bnip 3L antibody

Package: 50 µg
Store at: -20°C

## Summary

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| Product Description | Rabbit Polyclonal antibody recognizes Bnip 3L |
| Tested Reactivity | Hu, Ms |
| Predict Reactivity | Bov, Rat |
| Tested Application | IHC-P, WB |
| Specificity | This antibody recognizes monomeric human and mouse Bnip3L. A band of 40kDa is detected in immunoblots. |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | Bnip 3L |
| Species | Human |
| Immunogen | Peptide corresponding to aa 77-92 of human Bnip3L (accession no. AF067396) This amino acid sequence is identical to that of mouse. |
| Conjugation | Un-conjugated |
| Alternate Names | NIP3L; BNIP3a; Adenovirus E1B19K-binding protein B5; NIP3-like protein X; BCL2/adenovirus E1B 19 kDa protein-interacting protein 3A; NIX; BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| IHC-P | 0.5 - 2 µg/mL |
| WB | 2 - 10 µg/mL |

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| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
| Positive Control | K562 and Human kidney |

## Properties

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| Form | Liquid |
| Purification | Immunoaffinity chroma-tography |
| Buffer | PBS (pH 7.4) and 0.02% Sodium azide |
| Preservative | 0.02% Sodium azide |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed |

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| | before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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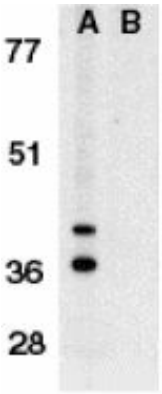
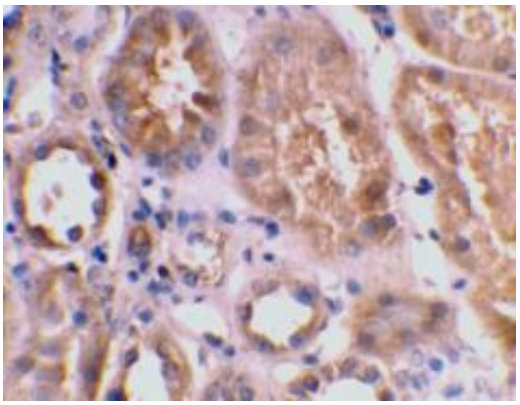
| Database links | GeneID: 12177 Mouse<br>GeneID: 665 Human<br>Swiss-port # O60238 Human<br>Swiss-port # Q9Z2F7 Mouse |
| Gene Symbol | BNIP3L |
| Gene Full Name | BCL2/adenovirus E1B 19kDa interacting protein 3-like |
| Background | A novel BH3 domain-containing protein was recently identified and designated Bnip3L, Bnip3 , or Nix. Bnip3L 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 suppression 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. |
| Function | Induces apoptosis. Interacts with viral and cellular anti-apoptosis proteins. Can overcome the suppressors BCL-2 and BCL-XL, although high levels of BCL-XL expression will inhibit apoptosis. Inhibits apoptosis induced by BNIP3. Involved in mitochondrial quality control via its interaction with SPATA18/MIEAP: in response to mitochondrial damage, participates to mitochondrial protein catabolic process (also named MALM) leading to the degradation of damaged proteins inside mitochondria. The physical interaction of SPATA18/MIEAP, BNIP3 and BNIP3L/NIX at the mitochondrial outer membrane regulates the opening of a pore in the mitochondrial double membrane in order to mediate the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix. May function as a tumor suppressor. [UniProt] |
| Research Area | Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody |
| Calculated Mw | 24 kDa |
| PTM | Undergoes progressive proteolysis to an 11 kDa C-terminal fragment, which is blocked by the proteasome inhibitor lactacystin. |

## Images




ARG54385 anti-Bnip 3L antibody WB image

Western blot: K562 whole cell lysate in the absence (A), or presence (B) of immunogenic peptide stained with ARG54385 anti-Bnip 3L antibody at 1 µg/ml dilution.



ARG54385 anti-Bnip 3L antibody IHC image

Immunohistochemistry: Human kidney tissue stained with ARG54385 anti-Bnip 3L antibody at 2 µg/ml dilution.