

Product datasheet for **AP23270PU-N**

BNIP3 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: At 1 µg/ml with the appropriate system to detect NIP3 in cells and tissues.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a sequence near the C-terminal of human NIP3
Specificity:	This antibody detects NIP3 near C-term. No cross reactivity with other proteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	BCL2/adenovirus E1B 19kDa interacting protein 3
Database Link:	Entrez Gene 12176 Mouse Entrez Gene 84480 Rat Entrez Gene 664 Human Q12983



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Background:

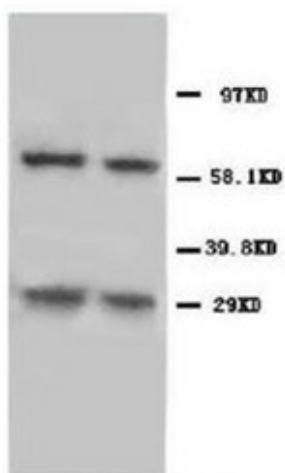
The Bcl-2 nineteen kilodalton interacting protein 3 (BNIP3 or NIP3), is a hypoxia-inducible proapoptotic member of the Bcl-2 family that induces cell death by associating with the mitochondria. BNIP3, expressed in skeletal muscle and in the brain at low levels, is primarily localized to the nucleus of glial cells of the normal human brain, as well as in the malignant glioma cell line U251. BNIP3 expression in the cytoplasm increases and localizes with the mitochondria, contributing to induction of cell death. Cellular protein BNIP3 interacts with E1B-19K, BCL-2, BCL-xL, and EBV-BHRF1. BNIP3 contains Bcl-2 homology 3 (BH3) domain and COOH-terminal transmembrane (TM) domain. The BH3 domain of BNIP3 mediates Bcl-2/Bcl-X(L) heterodimerization and confers pro-apoptotic activity; whereas the TM domain is critical for homodimerization, pro-apoptotic function, and mitochondrial targeting.

Synonyms:

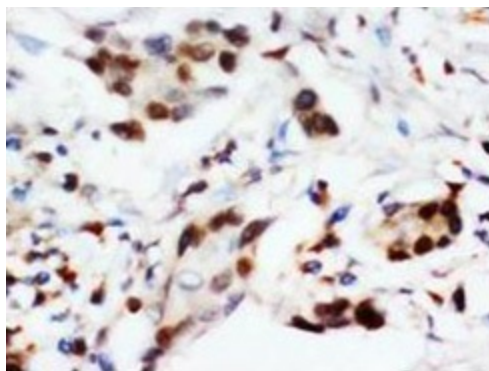
BNIP3

Protein Families:

Druggable Genome, Transmembrane

Product images:


Western blot analysis of rat thymus tissue lysis using NIP3 antibody



Immunohistochemical analysis of paraffin embedded cancer sections, staining in nucleus, DAB chromogenic reaction