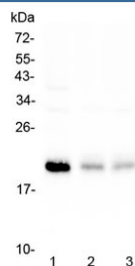


BNIP3 Antibody (RQ4194)

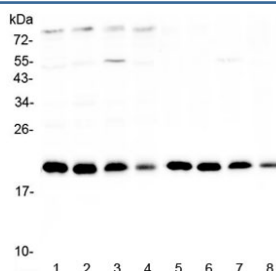
Catalog No.	Formulation	Size
RQ4194	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q12983
Applications	Western Blot : 0.5-1ug/ml
Limitations	This BNIP3 antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) A375 and 3) A549 cell lysate with BNIP3 antibody at 0.5ug/ml. Expected molecular weight: 19-21 kDa.



Western blot testing of rat 1) brain, 2) kidney, 3) heart, 4) testis and mouse 5) brain, 6) kidney, 7) heart and 8) testis lysate with BNIP3 antibody at 0.5ug/ml. Expected molecular weight: 19-21 kDa.

Description

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.

Application Notes

Optimal dilution of the BNIP3 antibody should be determined by the researcher.

Immunogen

Amino acids KEFLFKHPKRTATLSMRNTSVMKK were used as the immunogen for the BNIP3 antibody.

Storage

After reconstitution, the BNIP3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.