

BNIP3 Monoclonal antibody

Catalog Number: 68091-1-Ig 17 Publications

Basic Information

Catalog Number:

68091-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG27935

GenBank Accession Number:

BC009342

GeneID (NCBI):

664

UNIPROT ID:

Q12983

Full Name:

BCL2/adenovirus E1B 19kDa interacting protein 3

Calculated MW:

194 aa, 22 kDa

Observed MW:

25-30,50-60 kDa

Purification Method:

Protein A purification

CloneNo.:

2H7D8

Recommended Dilutions:

WB 1:5000-1:50000

IF 1:200-1:800

Applications

Tested Applications:

IF/ICC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

Human, Mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

WB : HepG2 cells, HSC-T6 cells, NIH/3T3 cells, LNCaP cells

IF : Cobalt Chloride treated HepG2 cells,

Background Information

BNIP3 (BCL2 interacting protein 3) is a member of the Bcl-2 family that is expressed in mitochondria and induces apoptosis (PMID: 10891486). It can regulate the permeability state of outer mitochondrial membrane (OMM), this regulation is accompanied by the formation of homo- and hetero-oligomers inside the membrane. Hypoxia can lead to transcriptional activation of BNIP3 through HIF-1 α (PMID: 11559532). Its calculated molecule weight is 21.5 kDa. The antibody can detect bands around 25 and 50 kDa, representing monomeric and dimeric forms, respectively (PMID: 21364626). BNIP3 is related to the occurrence and development of tumors, cardiovascular diseases, and Parkinson's diseases.

Notable Publications

Author	Pubmed ID	Journal	Application
Xudong Xie	36284303	Cell Commun Signal	WB, IHC
Wenshuo Zhang	36578780	Front Cell Dev Biol	WB
Mei-Fei Wu	36476627	Cell Biosci	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

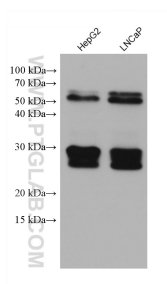
For technical support and original validation data for this product please contact:

T: 4006900926

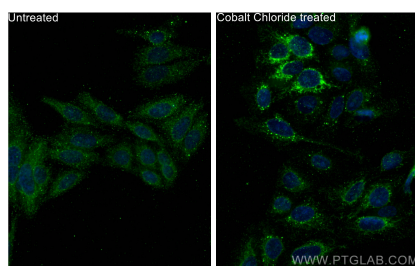
E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68091-1-Ig (BNIP3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed Cobalt Chloride treated HepG2 cells using BNIP3 antibody (68091-1-Ig, Clone: 2H7D8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).