

BNIP3 Monoclonal antibody, PBS Only

Catalog Number: 68091-1-PBS

Basic Information

Catalog Number:

68091-1-PBS

Concentration:

1mg/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

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

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 member (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). It's 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.

Storage

Storage:

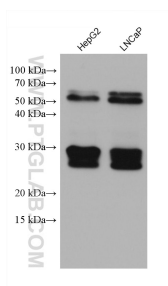
Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

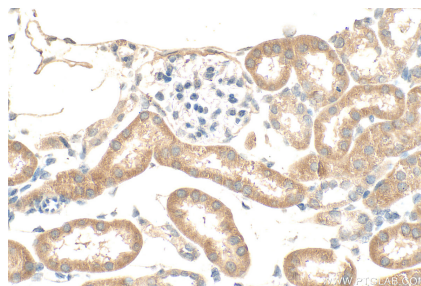
Storage Buffer:

PBS only, pH7.3

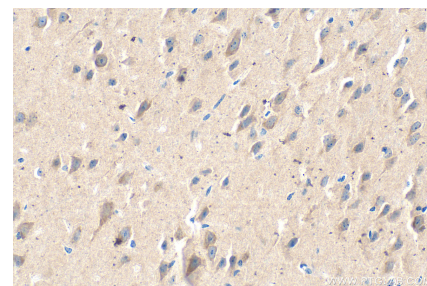
Selected Validation Data



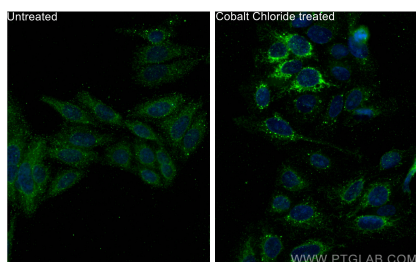
Various lysates were subjected to SDS PAGE followed by western blot with 68091-1-Ig (BNIP3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68091-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 68091-1-Ig (BNIP3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68091-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68091-1-Ig (BNIP3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68091-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68091-1-PBS in a different storage buffer formulation.