

For Research Use Only

# BNIP3 Monoclonal antibody

Catalog Number: 68091-1-Ig **35 Publications**



## Basic Information

<b>Catalog Number:</b> 68091-1-Ig	<b>GenBank Accession Number:</b> BC009342	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Mouse	<b>GeneID (NCBI):</b> 664	<b>CloneNo.:</b> 2H7D8
<b>Isotype:</b> IgG2b	<b>UNIPROT ID:</b> Q12983	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:50-1:500 IF/ICC: 1:200-1:800
<b>Immunogen Catalog Number:</b> AG27935	<b>Full Name:</b> BCL2/adenovirus E1B 19kDa interacting protein 3	
	<b>Calculated MW:</b> 194 aa, 22 kDa	
	<b>Observed MW:</b> 25-30,50-60 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF, CoIP	<b>WB :</b> HepG2 cells, HSC-T6 cells, NIH/3T3 cells, LNCaP cells
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> mouse brain tissue, mouse kidney tissue
<b>Cited Species:</b> human, mouse, rat	<b>IF/ICC :</b> Cobalt Chloride treated HepG2 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 $\alpha$  (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.

## 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

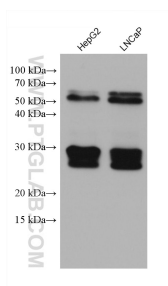
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

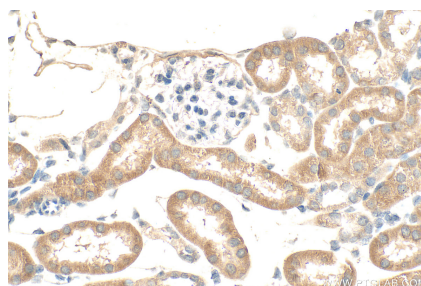
For technical support and original validation data for this product please contact:  
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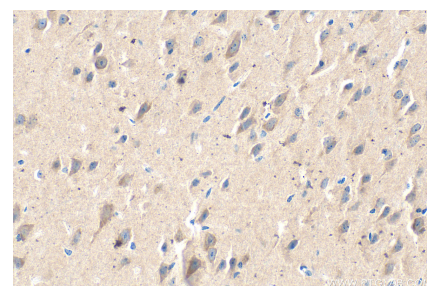
## Selected Validation Data



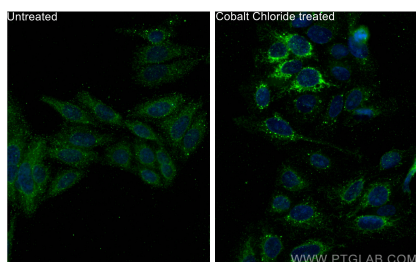
Various lysates were subjected to SDS PAGE followed by western blot with 68091-1-Ig (BNIP3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



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).



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).