

For Research Use Only

# BNIP3 Monoclonal antibody

Catalog Number: 68091-1-Ig **28 Publications**



## Basic Information

<b>Catalog Number:</b> 68091-1-Ig	<b>GenBank Accession Number:</b> BC009342	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 664	<b>CloneNo.:</b> 2H7D8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q12983	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> BCL2/adenovirus E1B 19kDa interacting protein 3	
<b>Immunogen Catalog Number:</b> AG27935	<b>Calculated MW:</b> 194 aa, 22 kDa	
	<b>Observed MW:</b> 25-30,50-60 kDa	

## Applications

<b>Tested Applications:</b> WB, 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>IF/ICC :</b> Cobalt Chloride treated HepG2 cells,
<b>Cited Species:</b> 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 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 $\alpha$  (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

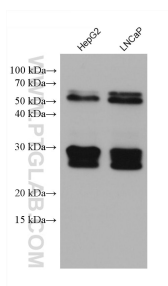
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

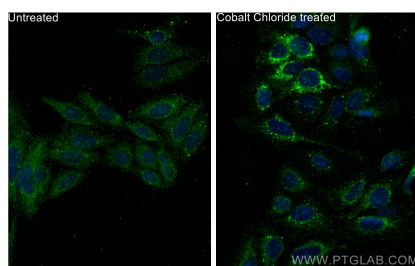
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## Selected Validation Data



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.



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 Goat Anti-Mouse IgG(H+L).