

For Research Use Only

# BNIP3 Monoclonal antibody, PBS Only



Catalog Number: 68091-1-PBS

## Basic Information

<b>Catalog Number:</b> 68091-1-PBS	<b>GenBank Accession Number:</b> BC009342	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 664	<b>CloneNo.:</b> 2H7D8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q12983	
<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

**Tested Applications:**  
WB, IF, ELISA

**Species Specificity:**  
Human, Mouse

## 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.

## Storage

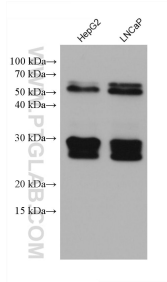
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only

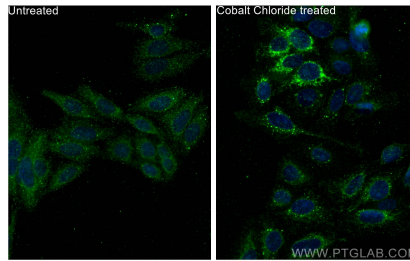
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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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. 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.