

For Research Use Only

BNIP3 Monoclonal antibody

Catalog Number: 68091-1-Ig **27 Publications**



Basic Information

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

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF, CoIP	WB : HepG2 cells, HSC-T6 cells, NIH/3T3 cells, LNCaP cells
Species Specificity: Human, Mouse, rat	IF/ICC : Cobalt Chloride treated HepG2 cells,
Cited Species: 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 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

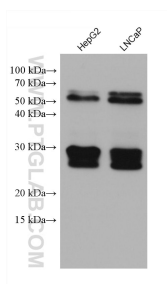
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

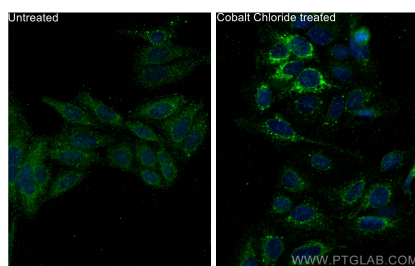
For technical support and original validation data for this product please contact:
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Selected Validation Data



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.



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).