

For Research Use Only

# BNIP1 Polyclonal antibody

Catalog Number: 15964-1-AP

5 Publications



## Basic Information

### Catalog Number:

15964-1-AP

### Size:

400 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8737

### GenBank Accession Number:

BC010959

### GeneID (NCBI):

662

### UNIPROT ID:

Q12981

### Full Name:

BCL2/adenovirus E1B 19kDa interacting protein 1

### Calculated MW:

228 aa, 26 kDa

### Observed MW:

26 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB: HeLa cells, mouse skeletal muscle tissue, rat brain tissue

IP: mouse brain tissue,

IHC: human heart tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

BNIP1 is a member of the BCL2/adenovirus E1B 19 kDa-interacting protein (BNIP) family. The encoded protein is predominantly localized to the endoplasmic reticulum (ER), is a pro-apoptotic Bcl-2 homology domain 3 (BH3)-only protein. BNIP1, also called SEC20L, is a component of a SNARE complex consisting of STX18, USE1L, BNIP1/SEC20L and SEC22B which is involved in apoptosis and ER membrane fusion. Recent reports showed that expression of BNIP1 induced mitochondrial fragmentation in a BH3 domain-dependent manner via increasing dynamin-related protein 1 (Drp1) expression. RNF185 is a mitochondrial ubiquitin E3 ligase that regulates selective mitochondrial autophagy, BNIP1 colocalizes with RNF185 at mitochondria and is polyubiquitinated by RNF185 through K63-based ubiquitin linkage in vivo and modulates mitochondrial homeostasis through autophagy.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tang Fei F	21931693	PLoS One	WB, IF
Tess Holling	35266227	Hum Mutat	WB, IF
Qing-Hua Yu	38906065	Transl Oncol	IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

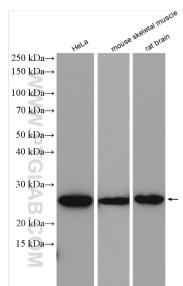
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

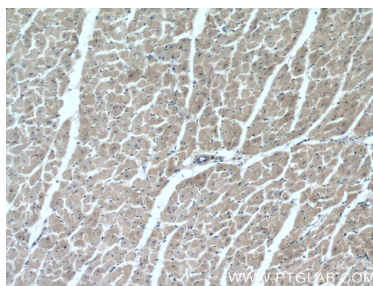
W: [ptgcn.com](http://ptgcn.com)

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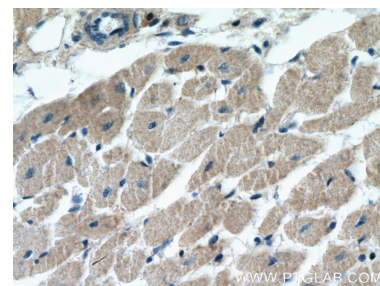
## Selected Validation Data



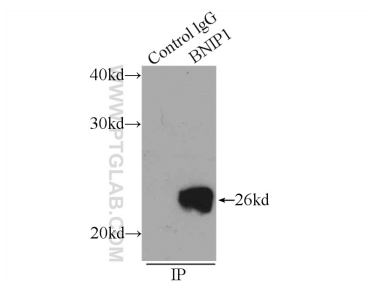
Various lysates were subjected to SDS PAGE followed by western blot with 15964-1-AP (BNIP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 15964-1-AP (BNIP1 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 15964-1-AP (BNIP1 antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-BNIP1 (IP:15964-1-AP, 3ug; Detection:15964-1-AP 1:500) with mouse brain tissue lysate 6000ug.