

For Research Use Only

BNIP1 Polyclonal antibody

Catalog Number: 15964-1-AP

5 Publications



Basic Information

Catalog Number:

15964-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 207 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, 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 modulate 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

*** 20ul sizes contain 0.1% BSA

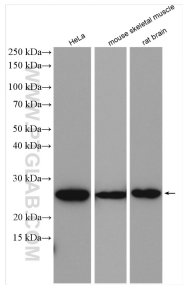
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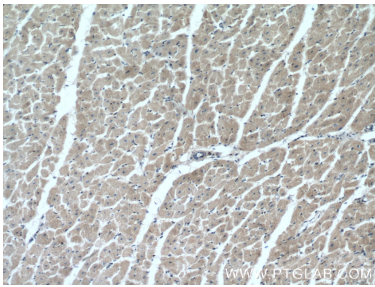
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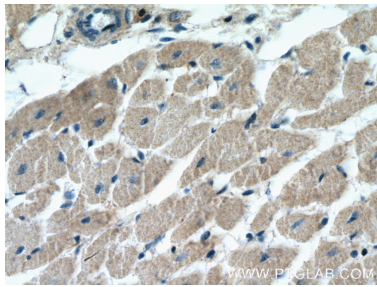
Selected Validation Data



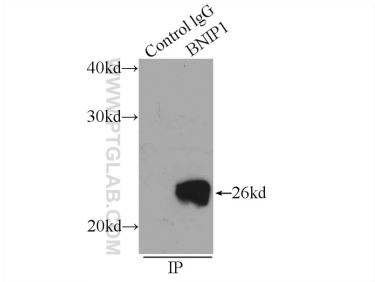
Various lysates were subjected to SDS PAGE followed by western blot with 15964-1-AP (BNIP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.