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Anti-BNIP2 Antibody

Catalog # AP51016

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q12982
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36018

Additional Information

Gene ID	663
Other Names	NIP2; BCL2/adenovirus E1B 19 kDa protein-interacting protein 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human BNIP2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

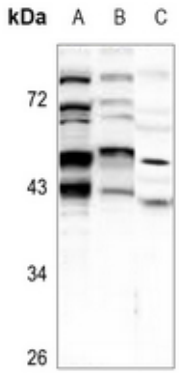
Name	BNIP2
Synonyms	NIP2
Function	Implicated in the suppression of cell death. Interacts with the BCL-2 and adenovirus E1B 19 kDa proteins.
Cellular Location	Cytoplasm. Cytoplasm, perinuclear region. Note=Localizes to the nuclear envelope region and to other cytoplasmic structures

References

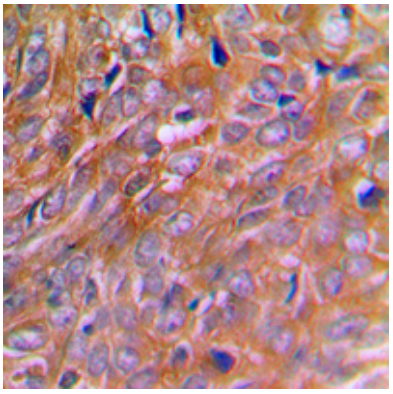
Boyd J.M.,et al.Cell 79:341-351(1994).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:671-675(2006).
Zahedi R.P.,et al.J. Proteome Res. 7:526-534(2008).

Daub H.,et al.Mol. Cell 31:438-448(2008).

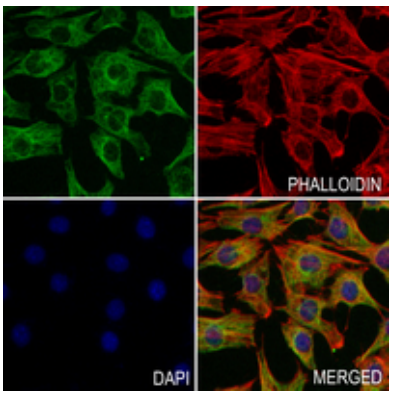
Images



Western blot analysis of BNIP2 expression in A549 (A), HUT78 (B), mouse kidney (C) whole cell lysates. (Predicted band size: 36 kD; Observed band size: 52; 43 kD)



Immunohistochemical analysis of BNIP2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of BNIP2 staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).