

For Research Use Only

ANP32B Monoclonal antibody

Catalog Number: 66160-1-Ig

Featured Product

3 Publications



Basic Information

Catalog Number:

66160-1-Ig

Size:

150ul, Concentration: 1800 ug/ml by Nanodrop and 887 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG1274

GenBank Accession Number:

BC013003

GeneID (NCBI):

10541

UNIPROT ID:

Q92688

Full Name:

acidic (leucine-rich) nuclear phosphoprotein 32 family, member B

Calculated MW:

29 kDa

Observed MW:

29 kDa

Purification Method:

Protein A purification

CloneNo.:

5A1F12

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:900-1:3600

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: LNCaP cells, fetal human brain tissue, HEK-293 cells, mouse brain tissue, U2OS cells, A431 cells, HCT 116 cells, HeLa cells

IF/ICC: A431 cells,

Background Information

ANP32B is a member of the highly conserved acidic leucine-rich nuclear phosphoprotein 32 (ANP32) family. The ANP32 proteins have been implicated in a broad array of physiological processes, including cell differentiation, apoptotic cell death, and cell proliferation. ANP32B was identified as a novel direct substrate for caspase-3 and acted as a negative regulator for leukemic cell apoptosis. ANP32B controls the expression of the dendritic cell maturation factor CD83 by regulating the transport of its mRNA to the cytoplasm. It also modulates the activity of the transcription factor Kruppel-like factor 5 (KLF5).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|---------------------|-------------|
| Ecco Staller | 31217244 | J Virol | WB |
| Lei Na | 38295177 | Sci Adv | WB |
| Chenxi Zhu | 37667300 | Orphanet J Rare Dis | WB |

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

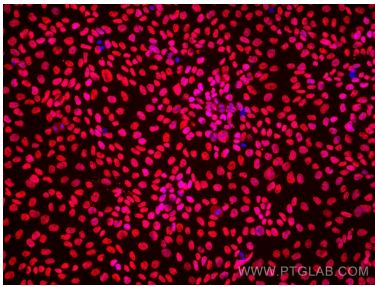
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

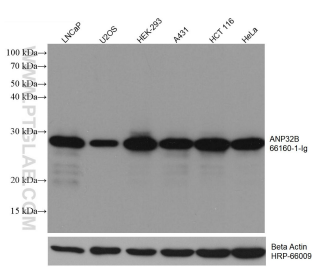
E: proteintech@ptglab.com
W: ptglab.com

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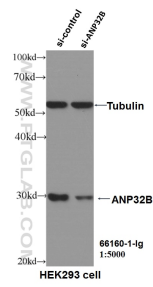
Selected Validation Data



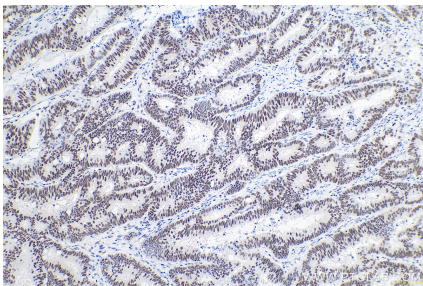
Immunofluorescent analysis of (4% PFA) fixed A431 cells using ANP32B antibody (66160-1-Ig, Clone: 5A1F12) at dilution of 1:1800 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



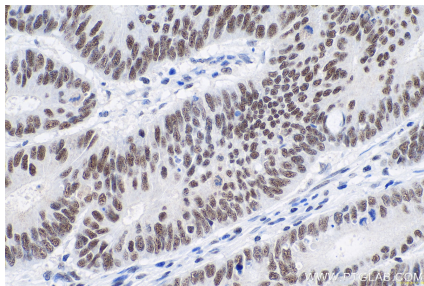
Various lysates were subjected to SDS PAGE followed by western blot with 66160-1-Ig (ANP32B antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



WB result of ANP32B antibody (66160-1-Ig, 1:5000) with si-control and si-ANP32B transfected HEK293 cells.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66160-1-Ig (ANP32B antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66160-1-Ig (ANP32B antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).