

For Research Use Only

Nucleobindin 1 Polyclonal antibody

Catalog Number: 10228-1-AP

1 Publications



Basic Information

Catalog Number:

10228-1-AP

Size:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0290

GenBank Accession Number:

BC002356

GeneID (NCBI):

4924

UNIPROT ID:

Q02818

Full Name:

nucleobindin 1

Calculated MW:

55 kDa

Observed MW:

63 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:50-1:500

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

mouse

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

Positive Controls:

WB : MCF7 cells, A431 cells, HeLa cells, HepG2 cells

IP : HepG2 cells,

IHC : human brain tissue,

IF-P : mouse brain tissue,

IF/ICC : HepG2 cells,

Background Information

Nucleobindin-1 (NUCB1), also known as Calnuc, is a highly conserved, multifunctional protein widely expressed in tissues and cells. It has been proposed to contain both calcium- and DNA-binding motifs, including two EF-hands, a basic amino-acid-rich region and a leucine zipper. Western blotting revealed a band at approximately 63 kDa, corresponding to the expected size of the NUCB1 protein (PMID: 15255074)

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|------------|-------------|
| Saad Fawzy A FA | 20556378 | Int Orthop | 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

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

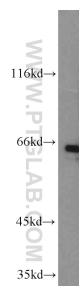
T: 4006900926

E: Proteintech-CN@ptglab.com

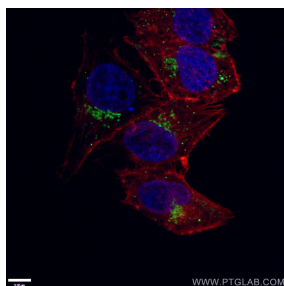
W: ptgcn.com

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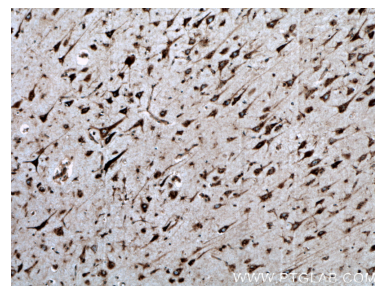
Selected Validation Data



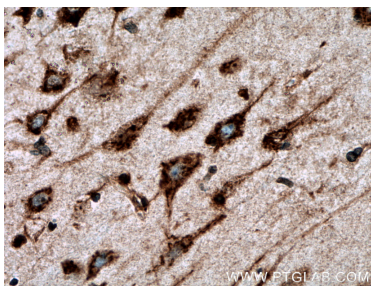
MCF7 cells were subjected to SDS PAGE followed by western blot with 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



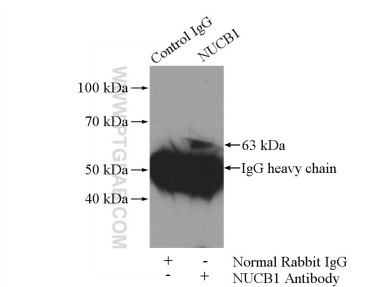
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



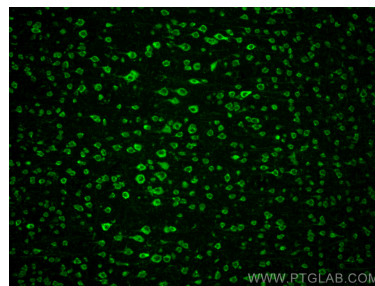
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



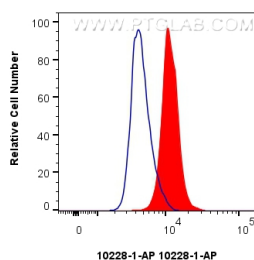
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



IP result of anti-nucleobindin 1 (IP:10228-1-AP, 4ug;
Detection:10228-1-AP 1:1000) with HepG2 cells
lysate 2400ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using nucleobindin 1 antibody (10228-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 μ g nucleobindin1 Polyclonal antibody (10228-B-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 μ g Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).