For Research Use Only

Nucleobindin 1 Polyclonal antibody

Catalog Number:10228-1-AP 1 Publications

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Basic Information

Catalog Number:
10228-1-AP

Size:
150ul , Concentration: 600 ug/ml by Nanodrop and 353 ug/ml by Bradford method using BSA as the standard;

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

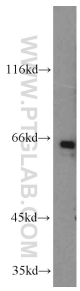
Storage

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

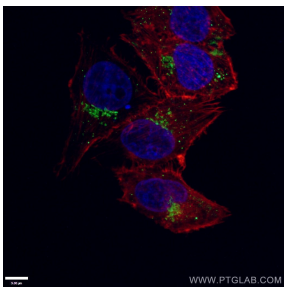
***** 20ul sizes contain 0.1% BSA**

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

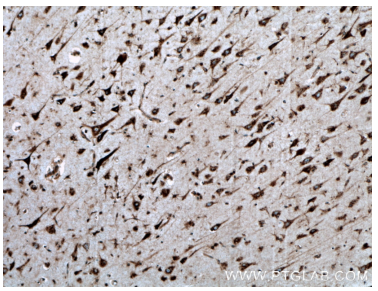
Selected Validation Data



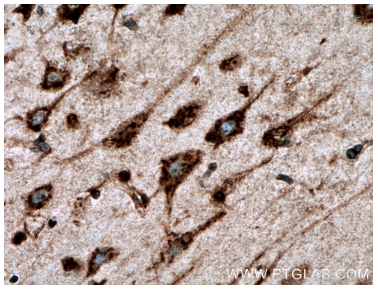
MCF7 cells were subjected to SDS PAGE followed by western blot with 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



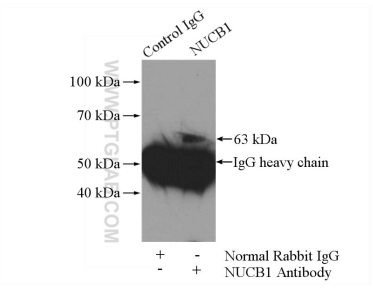
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



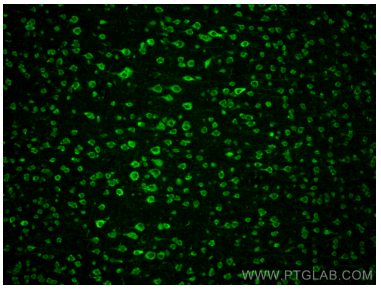
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



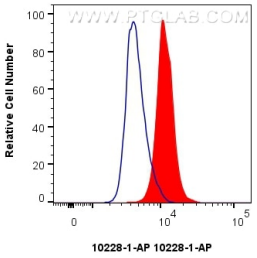
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug nucleobindin 1 Polyclonal antibody (10228-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).