

For Research Use Only

# nucleobindin 1 Polyclonal antibody



Catalog Number: 10228-1-AP

1 Publications

## Basic Information

**Catalog Number:**  
10228-1-AP

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

**Source:**  
Rabbit

**Isotype:**  
IgG

**Immunogen Catalog Number:**  
AG0290

**GenBank Accession Number:**  
BC002356

**GeneID (NCBI):**  
4924

**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 IP and 1:500-1:2000 for WB  
IHC 1:50-1:500  
IF 1:50-1:500

## Applications

**Tested Applications:**  
FC, IF, IHC, IP, WB, 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:** HepG2 cells, mouse brain tissue

## 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

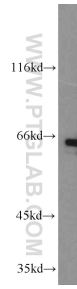
For technical support and original validation data for this product please contact:

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

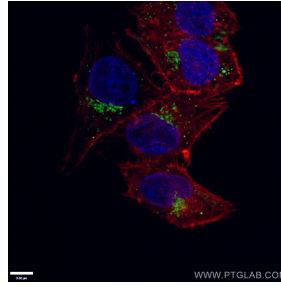
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

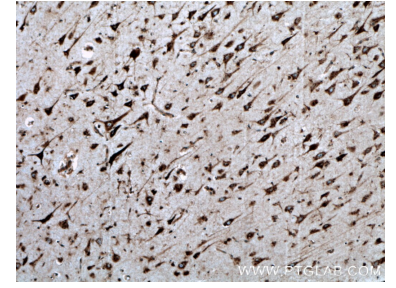
## Selected Validation Data



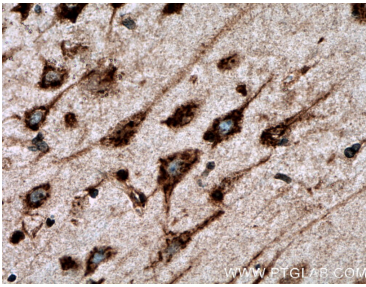
MCF7 cells were subjected to SDS PAGE followed by western blot with 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



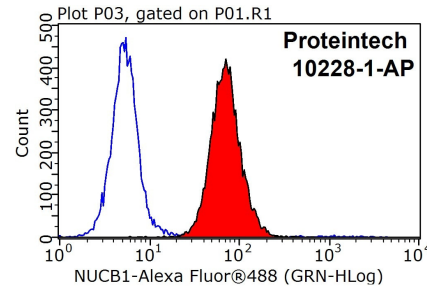
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



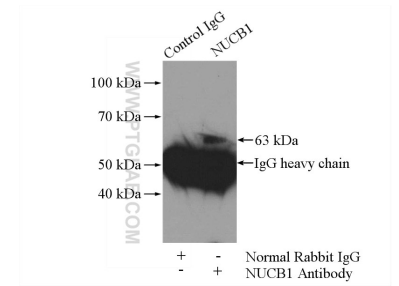
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10228-1-AP (nucleobindin 1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



$1 \times 10^6$  HepG2 cells were stained with 0.2ug nucleobindin 1 antibody (10228-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



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