

For Research Use Only

# NUMBL Polyclonal antibody

Catalog Number: 10111-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

10111-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0156

### GenBank Accession Number:

BC001794

### GeneID (NCBI):

9253

### UNIPROT ID:

Q9Y6R0

### Full Name:

numb homolog (Drosophila)-like

### Calculated MW:

65 kDa

### Observed MW:

65-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

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, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

**WB**: mouse brain tissue, mouse spleen tissue, HeLa cells, mouse lung tissue, mouse liver tissue

**IP**: HeLa cells,

**IHC**: human brain tissue, human gliomas tissue

**IF-P**: mouse cerebellum tissue,

**IF/ICC**: PC-12 cells, HepG2 cells

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

## Background Information

Numbl (also known as numbl-like or Nbl), as a conserved homolog of Drosophila Numb, is specifically expressed in the brain. Numbl is a cytoplasm protein and has redundant functions in embryonic neurogenesis. It plays an important role in ependymal wall integrity and subventricular zone neuroblast survival. However, its expression and function in the central nervous system lesion are still unclear.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yusuke Okubo	34519339	Development	WB
Rasin Mladen-Roko MR	17589506	Nat Neurosci	WB
Vaira Valentina V	23440423	Cancer Res	WB, IHC

## 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

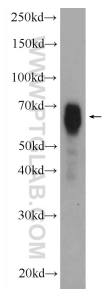
For technical support and original validation data for this product please contact:

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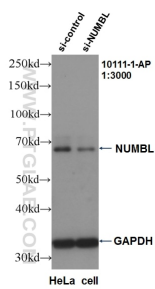
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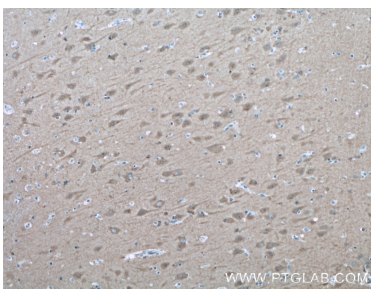
Selected Validation Data



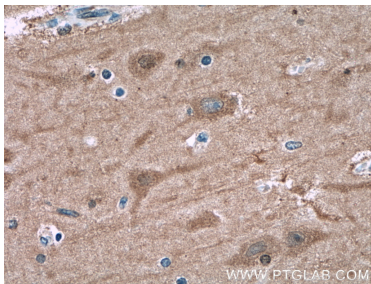
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10111-1-AP (NUMBL antibody at dilution of 1:2000 incubated at 4 degree celsius over night.



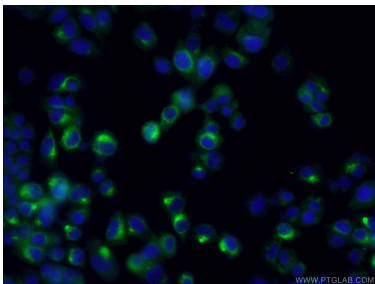
WB result of NUMBL antibody (10111-1-AP, 1:3000) with si-Control and si-NUMBL transfected HeLa cells.



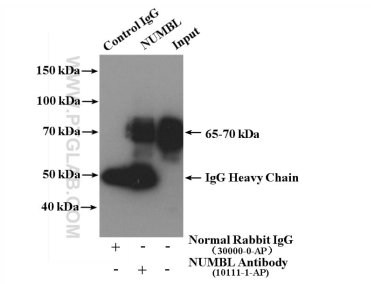
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10111-1-AP (NUMBL antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



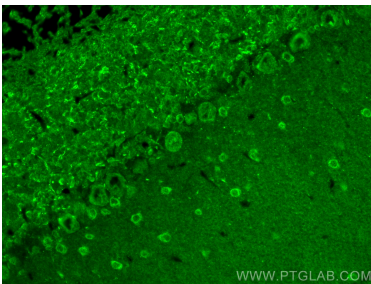
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10111-1-AP (NUMBL antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using 10111-1-AP (NUMBL antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-NUMBL (IP:10111-1-AP, 4ug; Detection:10111-1-AP 1:1000) with HeLa cells lysate 2800 ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse cerebellum tissue using NUMBL antibody (10111-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).