

For Research Use Only

# NSE Polyclonal antibody

Catalog Number: 10149-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

10149-1-AP

### Size:

150ul, Concentration: 400 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0196

### GenBank Accession Number:

BC002745

### GeneID (NCBI):

2026

### Full Name:

enolase 2 (gamma, neuronal)

### Calculated MW:

47 kDa

### Observed MW:

47 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:10000

IP 0.5-4.0 µg for IP and 1:200-1:1000 for WB

IHC 1:100-1:400

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

goat, human, mouse, rat

**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: human brain tissue, mouse brain tissue, U-251 cells

IP: mouse brain tissue,

IHC: human brain tissue, human lung tissue, human testis tissue

## Background Information

NSE, also named as ENO2, belongs to the enolase family. Enolases are cytoplasmic glycolytic enzymes that may be involved in differentiation. The enolase has three isoenzymes, alpha, beta and gamma. The alpha form is expressed in most tissues, whereas the beta form is expressed in muscle tissue. The gamma enolase (ENO2), a homodimer, is primarily localized in neurons and neuroendocrine cells and is a cancer diagnostic marker for brain tumors (PMID:7520111). ENO2 plays a role in the glycolysis-related energy pathway and might be involved in higher metabolic activity during the day than at night, at least in part.

## Notable Publications

Author	Pubmed ID	Journal	Application
Liyuan Qian	34692477	Front Oncol	WB
Santiago Ramirez	34685663	Cells	IF
Lawrence Owusu	29728894	J Mol Histol	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

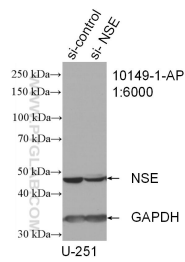
For technical support and original validation data for this product please contact:

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

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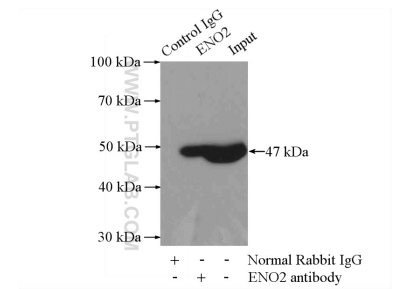
## Selected Validation Data



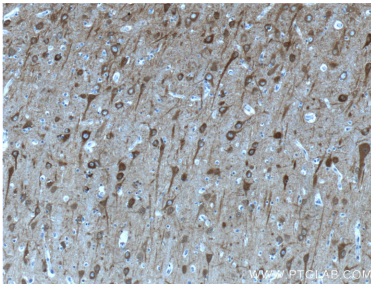
WB result of NSE antibody (10149-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NSE transfected U-251 cells.



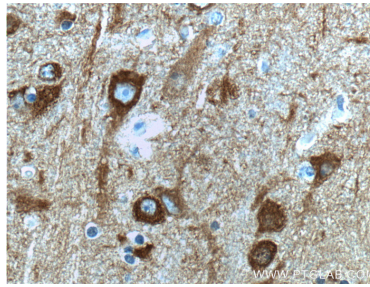
human brain tissue were subjected to SDS PAGE followed by western blot with 10149-1-AP (NSE antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



IP Result of anti-NSE (IP:10149-1-AP, 4ug; Detection:10149-1-AP 1:300) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10149-1-AP (NSE antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10149-1-AP (NSE antibody at dilution of 1:200 (under 40x lens).