For Research Use Only

# ENO1 Polyclonal antibody

Catalog Number:55237-1-AP Featured Product 1 Publications

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## Basic Information

Catalog Number:
55237-1-AP

Size:
150ul , Concentration: 850 ug/ml by Nanodrop and 293 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_001428

GeneID (NCBI):
2023

ENSEMBL Gene ID:
ENSG00000074800

UNIPROT ID:
P06733

Full Name:
enolase 1, (alpha)

Calculated MW:
47 kDa

Observed MW:
47 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 1:20-1:200
IF/ICC 1:20-1:200

## Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IP

Species Specificity:
human, mouse

Cited Species:
human

***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 : HeLa cells, HepG2 cells, mouse brain tissue, mouse liver tissue

IP : mouse brain tissue,

IHC : human brain tissue, human pancreas tissue, human skeletal muscle tissue

IF/ICC : HepG2 cells,

## Background Information

ENO1, also named as NNE, ENO1L1, MBPB1, MPB1 and MBP1, belongs to the enolase family. ENO1 is a metabolic enzyme involved in the synthesis of pyruvate. It also acts as a plasminogen receptor and mediates the activation of plasmin and extracellular matrix degradation. In tumor cells, ENO1 is up-regulated and supports the Warburg effect; it is expressed at the cell surface, where it promotes cancer invasion, and is subjected to a specific array of post-translational modifications, namely acetylation, methylation and phosphorylation. ENO1 overexpression and post-translational modifications could be of diagnostic and prognostic value in many cancer types. (PMID: 27814656). This antibody is specific to ENO1 and has no cross reaction with ENO2 and ENO3.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Guang Yang | 33372411 | EMBO Rep | WB,IP |

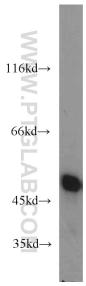
## Storage

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

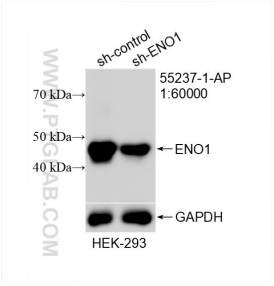
*** 20ul sizes contain 0.1% BSA

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

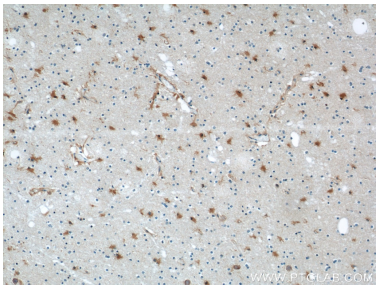
## Selected Validation Data



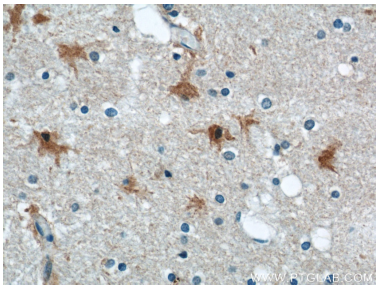

HeLa cells were subjected to SDS PAGE followed by western blot with 55237-1-AP (ENO1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



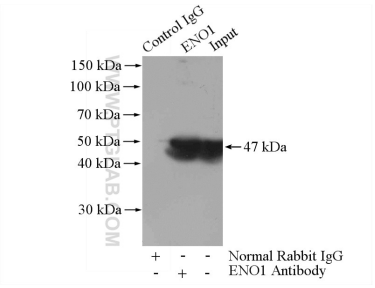

WB result of ENO1 antibody (55237-1-AP; 1:60000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ENO1 transfected HEK-293 cells.



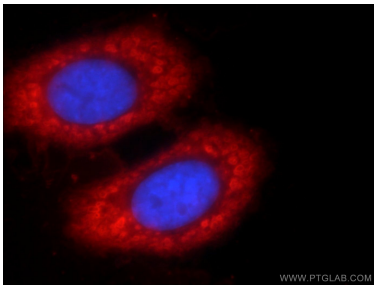
Immunohistochemical analysis of paraffin-embedded human brain using 55237-1-AP (ENO1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 55237-1-AP (ENO1 antibody) at dilution of 1:100 (under 40x lens).




IP result of anti-ENO1 (IP:55237-1-AP, 4ug; Detection:55237-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunofluorescent analysis of HepG2 cells using 55237-1-AP (ENO1 antibody) at dilution of 1:50 and Rhodamine-Goat anti-Rabbit IgG.