

For Research Use Only

ENO1 Polyclonal antibody

Catalog Number: 55237-1-AP 1 Publications



Basic Information

Catalog Number:

55237-1-AP

Size:

850 µg/ml

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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF 1:20-1:200

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

IP, WB

Species Specificity:

human, mouse

Cited Species:

human

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: 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

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

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

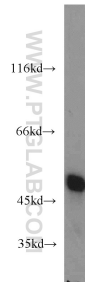
T: 4006900926

E: Proteintech-CN@ptglab.com

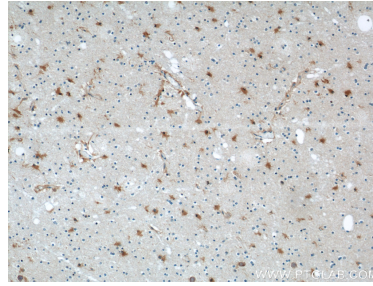
W: ptgcn.com

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

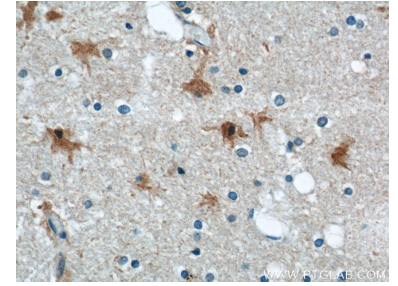
Selected Validation Data



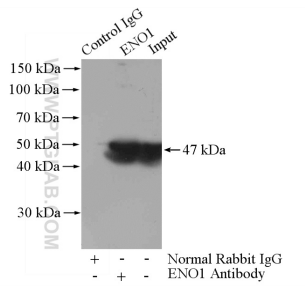
HeLa cells were subjected to SDS PAGE followed by western blot with 55237-1-AP (ENO1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



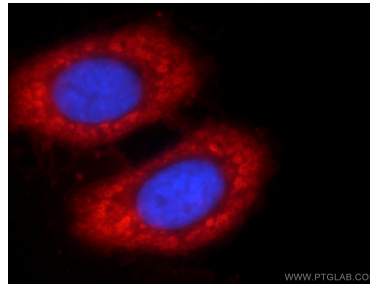
Immunohistochemical analysis of paraffin-embedded human brain using 55237-1-AP (ENO1 antibody) at dilution of 1:100 (under 10x lens).



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.