10320 Camino Santa Fe, Suite G
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# ENO2 Antibody
**Purified Mouse Monoclonal Antibody**
**Catalog # AO1744a**

## Specification

## ENO2 Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC, FC, E** |
| Primary Accession | P09104 |
| Reactivity | **Human, Mouse** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG1** |
| Calculated MW | **47.3kDa KDa** |

**Description**
This gene encodes one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates.

**Immunogen**
Purified recombinant fragment of human ENO2 (AA: 251-433) expressed in E. Coli.

**Formulation**
Purified antibody in PBS with 0.05% sodium azide

## ENO2 Antibody - Additional Information

**Gene ID** 2026

**Other Names**
Gamma-enolase, 4.2.1.11, 2-phospho-D-glycerate hydro-lyase, Enolase 2, Neural enolase, Neuron-specific enolase, NSE, ENO2

**Dilution**
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
FC~~1/200 - 1/400
E~~1/10000

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
ENO2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## ENO2 Antibody - Protein Information

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**Name** ENO2

**Function**
Has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. Binds, in a calcium- dependent manner, to cultured neocortical neurons and promotes cell survival (By similarity).

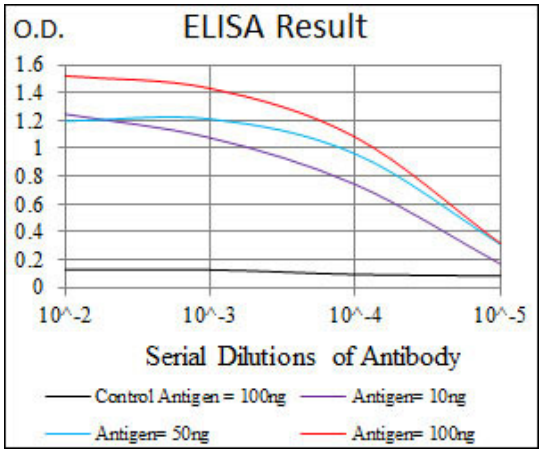
**Cellular Location**
Cytoplasm. Cell membrane. Note=Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form

**Tissue Location**
The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons

## ENO2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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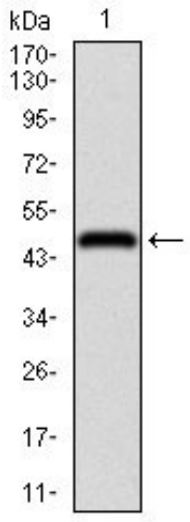


Figure 1: Western blot analysis using ENO2 mAb against human ENO2 recombinant protein. (Expected MW is 46 kDa)

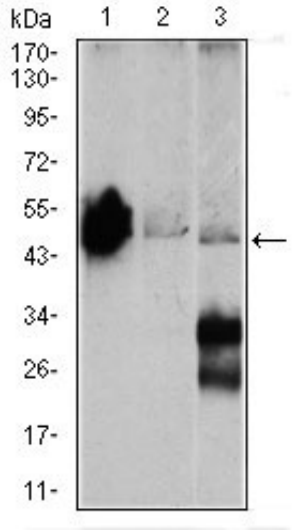


Figure 2: Western blot analysis using ENO2 mouse mAb against Mouse brain (1), NIH3T3 (2), and C6 (3) cell lysate.

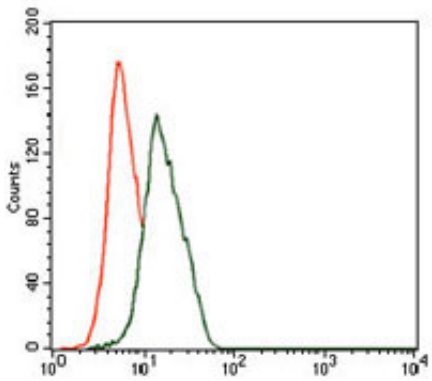


Figure 3: Flow cytometric analysis of HeLa cells using ENO2 mouse mAb (green) and negative control (red).

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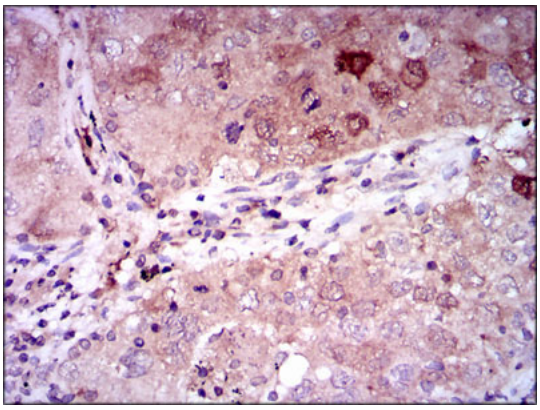

Figure 4: Immunohistochemical analysis of paraffin-embedded lung cancer tissues using ENO2 mouse mAb with DAB staining.

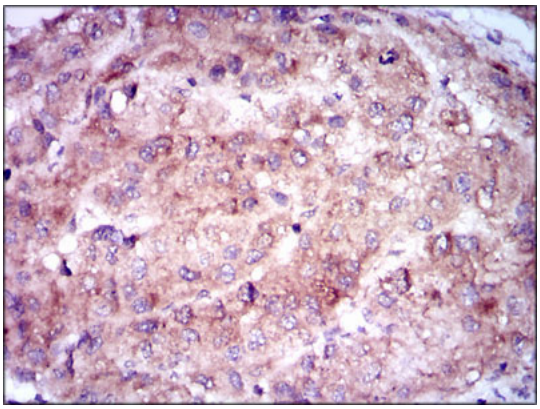

Figure 5: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using ENO2 mouse mAb with DAB staining.

## ENO2 Antibody - References

1.Neurology. 2011 Aug 16;77(7):623-30. 2.Lung Cancer. 2011 Feb;71(2):224-8.