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ENO2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1744a

Product Information

Application	WB, IHC, FC, E
Primary Accession	P09104
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	5D3
Isotype	IgG1
Calculated MW	47269
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

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.

Protein Information

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

References

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

Images

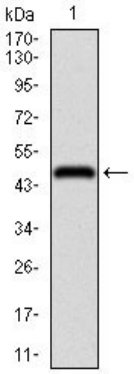

Figure 1: Western blot analysis using ENO2 mAb against human ENO2 recombinant protein. (Expected MW is 46 kDa)

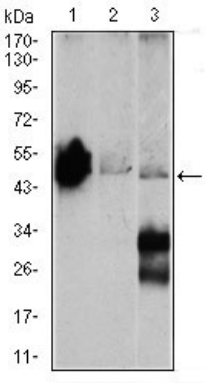

Figure 2: Western blot analysis using ENO2 mouse mAb against Mouse brain (1), NIH3T3 (2), and C6 (3) cell lysate.

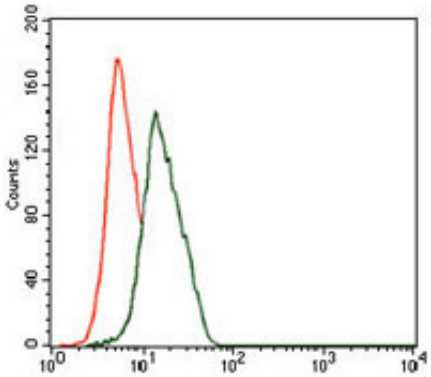

Figure 3: Flow cytometric analysis of HeLa cells using ENO2 mouse mAb (green) and negative control (red).

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

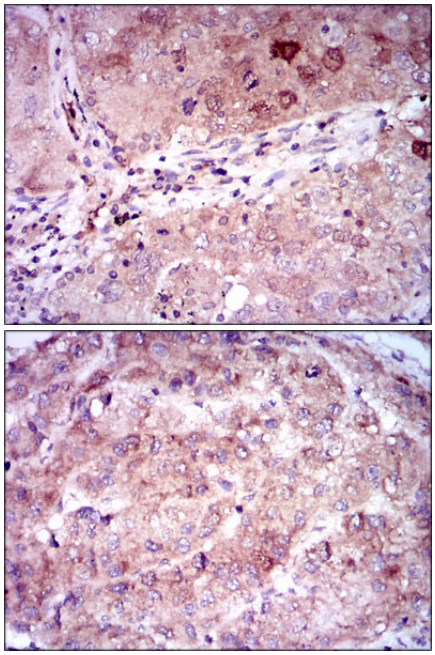

Figure 5: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using ENO2 mouse mAb with DAB staining.