

Enolase Polyclonal Antibody

Catalog No :	YT1561
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Enolase
Fields :	>>Glycolysis / Gluconeogenesis;>>Metabolic pathways;>>Carbon metabolism;>>Biosynthesis of amino acids;>>RNA degradation;>>HIF-1 signaling pathway
Gene Name :	ENO2
Protein Name :	Gamma-enolase
Human Gene Id :	2026
Human Swiss Prot No :	P09104
Mouse Gene Id :	13807
Mouse Swiss Prot No :	P17183
Rat Gene Id :	1.00912e+008
Rat Swiss Prot No :	P07323
Immunogen :	The antiserum was produced against synthesized peptide derived from human NSE. AA range:371-420
Specificity :	Enolase Polyclonal Antibody detects endogenous levels of Enolase protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not

yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 47kD

Cell Pathway : Glycolysis / Gluconeogenesis;RNA degradation;

Background : enolase 2(ENO2) Homo sapiens 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. [provided by RefSeq, Jul 2008],

Function : catalytic activity:2-phospho-D-glycerate = phosphoenolpyruvate + H(2)O.,cofactor:Magnesium. Required for catalysis and for stabilizing the dimer.,developmental stage:During ontogenesis, there is a transition from the alpha/alpha homodimer to the alpha/beta heterodimer in striated muscle cells, and to the alpha/gamma heterodimer in nerve cells.,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.,induction:Levels of ENO2 increase dramatically in cardiovascular accidents, cerebral trauma, brain tumors and Creutzfeldt-Jacob disease.,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 4/5.,similarity:Belongs to the enolase family.,subcellular location:Can translocate to the plasma membrane

Subcellular Location : Cytoplasm . Cell membrane . Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form. .

Expression : 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.

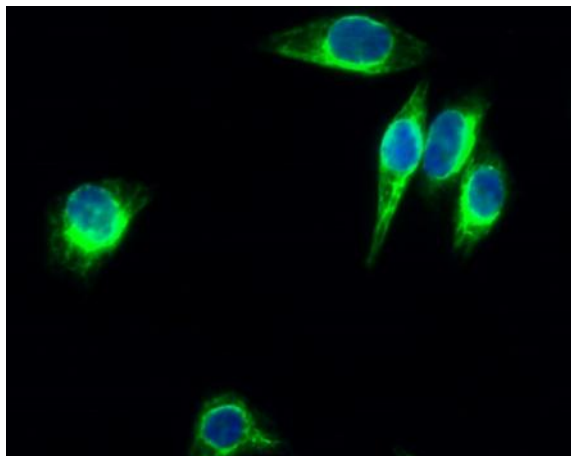
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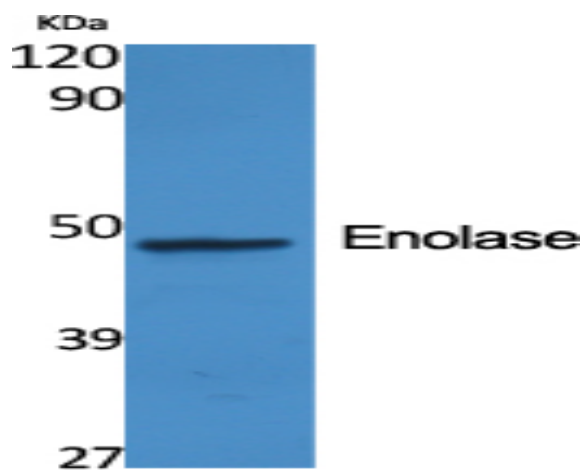
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Host : Rabbit**Modifications :** Unmodified

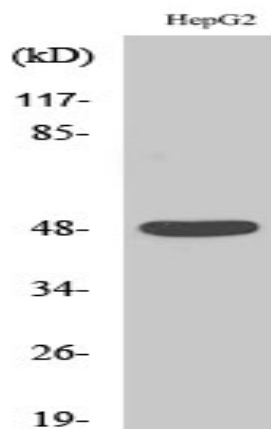
Products Images



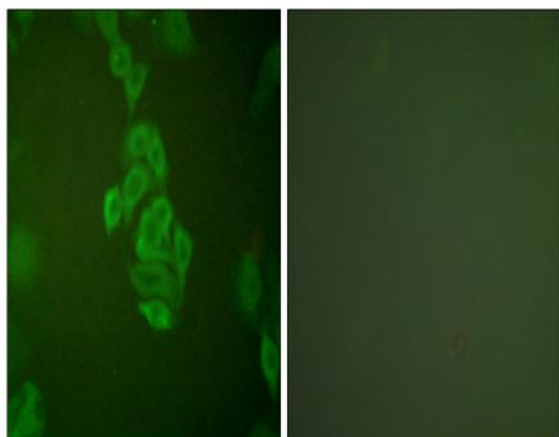
Immunofluorescence analysis of HeLa cell. 1, Enolase Polyclonal Antibody (green) was diluted at 1:200 (4 ° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog: RS3211 was diluted at 1:1000 (room temperature, 50min). 3 DAPI (blue) 10min.



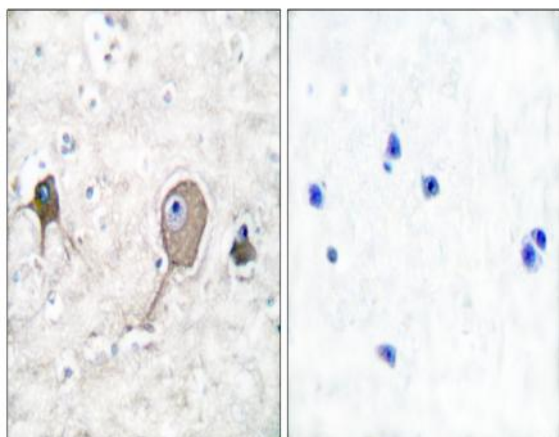
Western Blot analysis of various cells using Enolase Polyclonal Antibody diluted at 1:2000



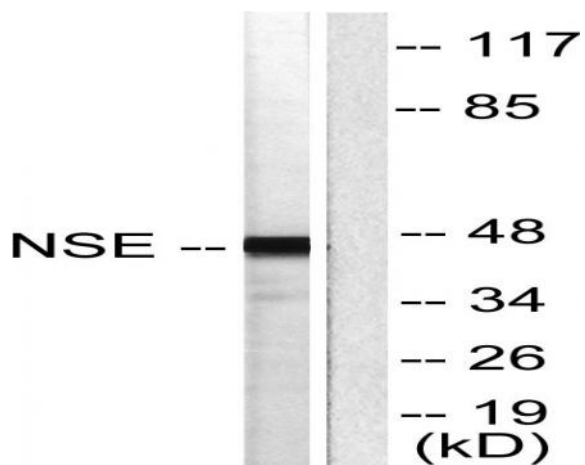
Western Blot analysis of HepG2 cells using Enolase Polyclonal Antibody diluted at 1:2000



Immunofluorescence analysis of A549 cells, using NSE Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using NSE Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using NSE Antibody. The lane on the right is blocked with the synthesized peptide.