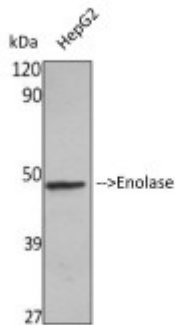


Anti-Enolase antibody



Description

Enolase is a protein encoded by the ENO2 gene which is approximately 47,2 kDa. Enolase is localised to the cytoplasm and cell membrane and is involved in glucose metabolism, carbon metabolism, HIF-1 signalling pathway and de-adenylation-dependent mRNA decay. It is one of the three enolase isoenzymes found in mammals. It has neurotrophic and neuroprotective properties on number of central nervous system neurons. It binds to cultured neocortical neurons in the presence of calcium and promotes cell survival. The enolase 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. Mutations in the ENO2 gene can result in granular cell tumors, pediatric ovarian dysgerminoma and olfactory neuroblastoma. The antibody STJ92926 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of Enolase protein.

Model	STJ92926
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human Enolase
Immunogen Region	340-420 aa, C-terminal
Gene ID	2026
Gene Symbol	ENO2

Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:10000
Specificity	Enolase Polyclonal Antibody detects endogenous levels of Enolase protein.
Tissue Specificity	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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Gamma-enolase 2-phospho-D-glycerate hydro-lyase Enolase 2 Neural enolase Neuron-specific enolase NSE
Molecular Weight	47 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:3353OMIM:131360
Alternative Names	Gamma-enolase 2-phospho-D-glycerate hydro-lyase Enolase 2 Neural enolase Neuron-specific enolase NSE
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 .
Cellular Localization	Cytoplasm Cell membrane. Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form.