



γ Enolase (h2): 293T Lysate: sc-170729

BACKGROUND

Enolases have been characterized as highly conserved cytoplasmic glycolytic enzymes that may be involved in differentiation. Three isoenzymes have been identified, α Enolase, β Enolase and γ Enolase. α Enolase expression has been detected on most tissues, whereas β Enolase is expressed predominantly in muscle tissue and γ Enolase is detected only in nervous tissue. These isoforms exist as both homodimers and heterodimers, and they play a role in converting phosphoglyceric acid to phosphoenolpyruvic acid in the glycolytic pathway.

REFERENCES

1. Whitehead, M.C., Marangos, P.L., Connolly, S.M. and Morest, D.K. 1982. Synapse formation is related to the onset of neuron-specific Enolase immunoreactivity in the avian auditory and vestibular systems. *Dev. Neurosci.* 5: 298-307.
2. Verma, M. and Dutta, S.K. 1994. DNA sequences encoding Enolase are remarkably conserved from yeast to mammals. *Life Sci.* 55: 893-899.
3. Keller, A., Berod, A., Dussaillant, M., Lamande, N., Gros, F. and Lucas, M. 1994. Coexpression of α and γ Enolase genes in neurons of adult rat brain. *J. Neurosci. Res.* 38: 493-504.
4. Zhang, E., Brewer, J.M., Minor, W., Carreira, L.A. and Lebienda, L. 1997. Mechanism of Enolase: the crystal structure of asymmetric dimer Enolase-2-phospho-D glycerate/Enolase-phosphoenolpyruvate at 2.0 Å resolution. *Biochemistry* 36: 12526-12534.
5. Deloulme, J.C., Helies, A., Ledig, M., Lucas, M. and Sensenbrenner, M. 1997. A comparative study of the distribution of α and γ Enolase subunits in cultured rat neural cells and fibroblasts. *Int. J. Dev. Neurosci.* 15: 183-194.
6. Sensenbrenner, M., Lucas, M. and Deloume, J.C. 1997. Expression of two neuronal markers, growth-associated protein 43 and neuron-specific Enolase, in rat glial cells. *J. Mol. Med.* 75: 653-663.

CHROMOSOMAL LOCATION

Genetic locus: ENO2 (human) mapping to 12p13.31.

PRODUCT

γ Enolase (h2): 293T Lysate represents a lysate of human γ Enolase transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

γ Enolase (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive γ Enolase antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.