SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

Aldolase B (m8): 293T Lysate: sc-124959

BACKGROUND

Fructose 1,6-bisphosphate Aldolase catalyses the reversible condensation of glycerone-P and glyceraldehyde 3-phosphate into fructose 1,6-bisphosphate. Fructose 1,6-bisphosphate Aldolase exists as three forms, the muscle-specific Aldolase A, the liver-specific Aldolase B and the brain-specific Aldolase C. Aldolase A, B and C arose from a common ancestral gene, from which Aldolase B first diverged. Aldolase A is one of the most highly conserved enzymes known, with only about 2% of the residues changing per 100 million years. Aldolase B is regulated by the hormones Insulin and glucagon and has been implicated in hereditary fructose intolerance disease. Aldolase C is a polypeptide that is exclusively expressed in Purkinje cells. Aldolase C-positive Purkinje cells are organized in the cerebellum as stripes or bands that run from anterior to posterior across the cerebellum and alternate with bands of Aldolase C-negative Purkinje cells.

REFERENCES

1. Izzo, P., Costanzo, P., Lupo, A., Rippa, E., Paolella, G. and Salvatore, F. 1988. Human Aldolase A gene. Structural organization and tissue-specific expression by multiple promoters and alternate mRNA processing. Eur. J. Biochem. 174: 569-578.
2. Freemont, P.S., Dunbar, B. and Fothergill-Gilmore, L.A. 1988. The complete amino acid sequence of human skeletal-muscle fructose-bisphosphate aldolase. Biochem. J. 249: 779-788.
3. Caffe, A.R., Von Schantz, M., Szel, A., Voogd, J., andVan Veen, T. 1994. Distribution of Purkinje cell-specific Zebrin-II/Aldolase C immunoreactivity in the mouse, rat, rabbit, and human retina. J. Comp. Neurol. 348: 291-297.
4. Lannoo, M.J. and Hawkes, R. 1997. A search for primitive Purkinje cells: Zebrin II expression in sea lampreys (*Petromyzon marinus*). Neurosci. Lett. 237: 53-55.
5. Eisenman, L.M., Gallagher, E. and Hawkes, R. 1998. Regionalization defects in the weaver mouse cerebellum. J. Comp. Neurol. 394: 431-444.
6. Dehnes, Y., Chaudhry, F.A., Ullensvang, K., Lehre, K.P., Storm-Mathisen, J. and Danbolt, N.C. 1998. The glutamate transporter EAAT4 in rat cerebellar Purkinje cells: a glutamate-gated chloride channel concentrated near the synapse in parts of the dendritic membrane facing astroglia. J. Neurosci. 18: 3606-3619.
7. Walther, E.U., Dichgans, M., Maricich, S.M., Romito, R.R., Yang, F., Dziennis, S., Zackson, S., Hawkes, R. and Herrup, K. 1998. Genomic sequences of Aldolase C (Zebrin II) direct lacZ expression exclusively in non-neuronal cells of transgenic mice. Proc. Natl. Acad. Sci. USA 95: 2615-2620.
8. Zgiby, S.M., Thomson, G.J., Qamar, S. and Berry, A. 2000. Exploring substrate binding and discrimination in fructose1, 6-bisphosphate and tagatose 1,6-bisphosphate aldolases. Eur. J. Biochem. 267: 1858-1868.
9. Takano, Y., Iuchi, Y., Ito, J., Otsu,K., Kuzumaki,T. and Ishikawa, K. 2000. Characterization of the responsive elements to hormones in the rat Aldolase B gene. Arch. Biochem. Biophys. 377: 58-64.

CHROMOSOMAL LOCATION

Genetic locus: Aldob (mouse) mapping to 4 B1.

PRODUCT

Aldolase B (m8): 293T Lysate represents a lysate of mouse Aldolase B transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Aldolase B (m8): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Aldolase B antibodies. Recommended use: 10-20 µl 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.