



GSTT1 (m): 293T Lysate: sc-120670

BACKGROUND

The GST superfamily is made up of several subfamilies. Glutathione S-transferase P (GSTP1) belongs to the π subfamily and is involved in the conjugation of reduced glutathione to a variety of endogenous and exogenous hydrophobic electrophiles. Glutathione S-transferase Mu 1 (GSTM1) is a cytoplasmic liver protein belonging to the Mu family and has the same basic functions as GSTP1-1. Glutathione S-transferase θ 1 (GSTT1), a cytoplasmic homodimer belonging to the θ family, is expressed in erythrocytes. It is active in the reduced glutathione conjugation and also displays glutathione peroxidase activity with cumene hydroperoxide.

REFERENCES

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2. Pemble, S., Schroeder, K.R., Spencer, S.R., Meyer, D.J., Hallier, E., Bolt, H.M., Ketterer, B. and Taylor, J.B. 1994. Human glutathione S-transferase θ (GSTT1): cDNA cloning and the characterization of a genetic polymorphism. *Biochem. J.* 300: 271-276.
3. Mainwaring, G.W., Williams, S.M., Foster, J.R., Tugwood, J. and Green, T. 1996. The distribution of θ -class glutathione S-transferases in the liver and lung of mouse, rat and human. *Biochem. J.* 318: 297-303.
4. Jemth, P. and Mannervik, B. 1997. Kinetic characterization of recombinant human glutathione transferase T1-1, a polymorphic detoxication enzyme. *Arch. Biochem. Biophys.* 348: 247-254.
5. Sprenger, R., Schlagenhauser, R., Kerb, R., Bruhn, C., Brockmüller, J., Roots, I. and Brinkmann, U. 2000. Characterization of the glutathione S-transferase GSTT1 deletion: discrimination of all genotypes by polymerase chain reaction indicates a trimodular genotype-phenotype correlation. *Pharmacogenetics* 10: 557-565.

CHROMOSOMAL LOCATION

Genetic locus: *Gstt1* (mouse) mapping to 10 C1.

PRODUCT

GSTT1 (m): 293T Lysate represents a lysate of mouse GSTT1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

GSTT1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GSTT1 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.