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## Produktinformation



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### Zuschläge

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- 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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

## BACKGROUND

The GST superfamily is made up of several subfamilies. Glutathione S-transferase P (GSTP1) belongs to the  $\pi$  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  $\theta$ 1 (GSTT1), a cytoplasmic homodimer belonging to the  $\theta$  family, is expressed in erythrocytes. It is active in the reduced glutathione conjugation and also displays glutathione peroxidase activity with cumene hydroperoxide.

## REFERENCES

1. Meyer, D.J., Coles, B., Pemble, S.E., Gilmore, K.S., Fraser, G.M. and Ketterer, B. 1991.  $\theta$ , a new class of glutathione transferases purified from rat and man. *Biochem. J.* 274: 409-414.
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  $\theta$  (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  $\theta$ -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., Schlagenhauer, 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  $\mu$ g protein in 200  $\mu$ 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  $\mu$ 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](http://www.scbt.com) for detailed protocols and support products.