

TPST-2 (m): 293T Lysate: sc-124239

BACKGROUND

The tyrosylprotein sulfotransferases TPST-1 and TPST-2 catalyze the sulfation of tyrosine residues within secreted and membrane-bound proteins, such as cell adhesion molecules, G protein-coupled receptors, coagulation factors, serpins, extracellular matrix proteins and hormones. Although both TPST-1 and TPST-2 utilize 3'-phosphoadenosine 5'-phosphosulfate as their sulfate donor, they differ in their substrate specificity. The TPSTs are evolutionarily conserved proteins found in a wide variety of species, including human, mouse, *C. elegans*, and plants. They are ubiquitously expressed in several tissues, including liver, lung, heart and cerebellum. Both TPST-1 and TPST-2 localize to the Golgi complex. Chronic alcohol consumption stimulates a threefold increase in TPST levels in the gastric mucosa and liver, indicating that TPST may play a role in alcoholism. The genes encoding human TPST-1 and TPST-2 map to chromosomes 7q11.21 and 22q12.1, respectively.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Tpst2 (mouse) mapping to 5 F.

PRODUCT

TPST-2 (m): 293T Lysate represents a lysate of mouse TPST-2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

TPST-2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TPST-2 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.