



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# melanotransferrin (m): 293T Lysate: sc-121600

## BACKGROUND

Melanotransferrin is a member of the transferrin family of iron-binding proteins, which also includes serum transferrin, lactoferrin, and ovotransferrin, and it is highly expressed on melanoma cells. Melanotransferrin, also designated p97, shares a high degree of homology with transferrin, but does not play a significant role in the uptake of iron. Melanotransferrin utilizes a member of the low-density lipoprotein receptor family for trans-endothelial transport, which is not as efficient as the transport of transferrin through the corresponding transferrin receptor. The gene encoding human melanotransferrin maps to chromosome 3q28-29, and is predominantly expressed as either a membrane bound protein or a secreted form of the protein. Melanotransferrin is expressed in brain, where it may be involved in Alzheimer's disease. Melanotransferrin may also protect against membrane-lipid peroxidation, possess a metalloprotease activity, and possibly participate in intracellular adhesion. Further research will be necessary to fully elucidate the functions of this protein.

## REFERENCES

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3. Rothenberger, S., et al. 1996. Coincident expression and distribution of melanotransferrin and transferrin receptor in human brain capillary endothelium. *Brain Res.* 712: 117-21.
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7. Sala, R., et al. 2002. The human melanoma associated protein melanotransferrin promotes endothelial cell migration and angiogenesis *in vivo*. *Eur. J. Cell Biol.* 81: 599-607.
8. Demeule, M., et al. 2002. High transcytosis of melanotransferrin (P97) across the blood-brain barrier. *J. Neurochem.* 83: 924-933.
9. Food, M.R., et al. 2002. The soluble form of the membrane-bound transferrin homologue, melanotransferrin, inefficiently donates iron to cells via non-specific internalization and degradation of the protein. *Eur. J. Biochem.* 269: 4435-4445.

## CHROMOSOMAL LOCATION

Genetic locus: Mfi2 (mouse) mapping to 16 B2.

## PRODUCT

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

## APPLICATIONS

melanotransferrin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive melanotransferrin 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](http://www.scbt.com) for detailed protocols and support products.