# D54 (m2): 293T Lysate: sc-110149



The Power to Question

# **BACKGROUND**

The tumor protein D52 (TPD52) family consists of three members, TPD52, TPD52L1 (D53), and TPD52L2 (D54). These small coiled-coil motif bearing proteins interact in hetero- and homomeric fashion, and have been implicated in cell proliferation, apoptosis, and vesicle trafficking. The TPD52 gene maps to chromosome 8q12, and due to amplification, shows frequent overexpression in prostate and breast carcinomas. D54 is a 206 amino acid protein that is often co-expressed with TPD52 in the bone marrow of patients with ALL and AML, suggesting that it has the potential to play a role in malignancy. D54 interacts with MAL2, a member of the polarized machinery transport system that is required for transcytosis, a transporter pathway that is used to deliver membrane-bound cargo from perinuclear endosomes to the apical surface in a raft-dependent manner. There are three isoforms of D54 that are produced as a result of alternative splicing events.

# **REFERENCES**

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- Barbaric, D., et al. 2006. Expression of tumor protein D52-like genes in childhood leukemia at diagnosis: clinical and sample considerations. Leuk. Res. 30: 1355-1363.

# **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.

#### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

#### **CHROMOSOMAL LOCATION**

Genetic locus: Tpd52I2 (mouse) mapping to 2 H4.

### **PRODUCT**

D54 (m2): 293T Lysate represents a lysate of mouse D54 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

#### **APPLICATIONS**

D54 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive D54 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.

# **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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