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Diagnostik & molekulare Diagnostik



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# TMED4 (h): 293T Lysate: sc-116509

## BACKGROUND

TMED4 (transmembrane emp24 domain-containing protein 4), also known as ERS25 (endoplasmic reticulum stress-response protein 25) and putative NF $\kappa$ B-activating protein 156, is a 225 amino acid protein that is a member of the EMP24/GP25L family. Like most members of this family, TMED4 is a single-pass type I membrane protein containing one GOLD domain. The GOLD (Golgi dynamics) domain is a region of about 90 to 150 amino acids that mediates protein-protein interactions. The GOLD domain interacts with lipid, sterol or fatty acid-domains as well as with the RUN domain, which interacts with cytoskeletal filaments, of membrane proteins. Localized to the endoplasmic reticulum, TMED4 is induced by ER-specific stress, heat shock and oxidative stress. Knockdown of TMED4 mRNA results in a significant reduction in apoptosis as well as a reduction in reactive oxidative species. There are three isoforms of TMED4 that are produced as a result of alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TMED4 (human) mapping to 7p13.

## PRODUCT

TMED4 (h): 293T Lysate represents a lysate of human TMED4 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

TMED4 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TMED4 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 $^{\circ}$  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.