

# TDE1 (T-15): sc-98170

## BACKGROUND

TDE1, tumor differentially expressed protein 1, is a multi-pass membrane protein also known as serine incorporator 3. Also found on the membranes of the Golgi apparatus within cells, TDE1 is highly expressed in neuronal populations but is also found in thymus, kidney, liver and testis. Expression levels of TDE1 in tumors can be as much as tenfold the amount found in normal tissue of the same type. This increased expression implicates TDE1 as being involved in the cellular transformation from normal to malignant tissue. It is believed TDE1 contributes to oncogenesis by partially protecting cells from serum starvation and etoposide-induced apoptosis. The mechanism through which TDE1 protects cells is poorly understood, but may involve aberrant methylation of TDE1 complexes.

## REFERENCES

1. Lebel, M. and Mes-Masson, A.M. 1994. Sequence analysis of a novel cDNA which is overexpressed in testicular tumors from *polyomavirus* large T-antigen transgenic mice. *DNA Seq.* 5: 31-39.
2. Morrish, D.W., et al. 1996. Cloning of PL33: a novel probable serpentine membrane receptor associated with human cytotrophoblast and lineage-specific HL-60 cell differentiation. *Mol. Cell. Endocrinol.* 120: 147-151.
3. Bossolasco, M., et al. 1999. The human TDE gene homologue: localization to 20q13.1-13.3 and variable expression in human tumor cell lines and tissue. *Mol. Carcinog.* 26: 189-200.
4. Nimrich, I., et al. 2000. Seven genes that are differentially transcribed in colorectal tumor cell lines. *Cancer Lett.* 160: 37-43.
5. Player, A., et al. 2003. Identification of TDE2 gene and its expression in non-small cell lung cancer. *Int. J. Cancer* 107: 238-243.
6. Hilton, T.L. and Wang, E.H. 2003. Transcription factor IID recruitment and Sp1 activation. Dual function of TAF1 in cyclin D1 transcription. *J. Biol. Chem.* 278: 12992-13002.

## CHROMOSOMAL LOCATION

Genetic locus: SERINC3 (human) mapping to 20q13.12; Serinc3 (mouse) mapping to 2 H3.

## SOURCE

TDE1 (T-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of TDE1 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, ready P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

TDE1 (T-15) is recommended for detection of TDE1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TDE1 (T-15) is also recommended for detection of TDE1 in additional species, including equine.

Suitable for use as control antibody for TDE1 siRNA (h): sc-76638, TDE1 siRNA (m): sc-154153, TDE1 shRNA Plasmid (h): sc-76638-SH, TDE1 shRNA Plasmid (m): sc-154153-SH, TDE1 shRNA (h) Lentiviral Particles: sc-76638-V and TDE1 shRNA (m) Lentiviral Particles: sc-154153-V.

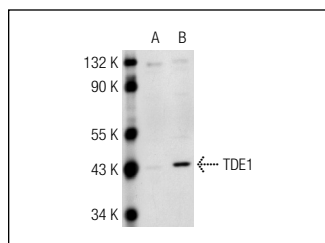
Molecular Weight of TDE1: 53 kDa.

Positive Controls: A549 cell lysate: sc-2413 or TDE1 (h): 293T Lysate: sc-171476.

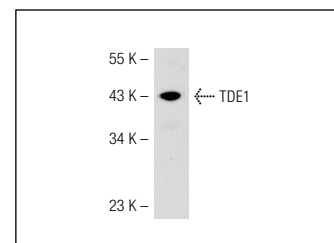
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



TDE1 (T-15): sc-98170. Western blot analysis of TDE1 expression in non-transfected: sc-117752 (A) and human TDE1 transfected: sc-171476 (B) 293T whole cell lysates.



TDE1 (T-15): sc-98170. Western blot analysis of TDE1 expression in A549 whole cell lysate.

## 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) or our catalog for detailed protocols and support products.