**BACKGROUND**

Taurine is an abundant organic osmolyte that possesses antioxidant and immunomodulatory properties and plays a role in cell volume homeostasis. Taurine is taken up into cells via the taurine transporter (TAUT). TAUT, which is sodium- and chloride-dependent, is a multi-pass membrane protein belonging to the sodium neurotransmitter symporter (SNF) family of proteins. TNFα upregulates TAUT expression, while phosphorylation on Serine 322 down-regulates it. Overexpression of TAUT protects renal cells from cisplatin-induced nephrotoxicity.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SLC6A6 (human) mapping to 3p25.1; Slc6a6 (mouse) mapping to 6D1.

**SOURCE**

TAUT (E-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 397-424 within an internal region of TAUT of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-166640 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

TAUT (E-10) is recommended for detection of TAUT of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

TAUT (E-10) is also recommended for detection of TAUT in additional species, including porcine.

Suitable for use as control antibody for TAUT siRNA (h): sc-61648, TAUT siRNA (m): sc-616489, TAUT shRNA Plasmid (h): sc-61648-SH, TAUT shRNA Plasmid (m): sc-61649-SH, TAUT shRNA (h) Lentiviral Particles: sc-61648-V and TAUT shRNA (m) Lentiviral Particles: sc-61649-V.

Molecular Weight of TAUT isoforms: 49-132 kDa.

Positive Controls: ARPE-19 whole cell lysate: sc-364357, Y79 cell lysate: sc-2240 or Jurkat whole cell lysate: sc-2204.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

TAUT (E-10): sc-166640. Western blot analysis of TAUT expression in Y79 whole cell lysate.

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. 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.