TAUT (E-10): sc-166640

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 downregulates 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 6 D1.

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-61649, 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:
1) Western Blotting: use m-IgGk BP-HRP: sc-516102 or m-IgGk BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGk BP-FITC: sc-516140 or m-IgGk BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

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.