**BACKGROUND**

Transporters are expressed in a wide variety of tissues where they perform the critical function of enabling anionic and cationic chemicals of exogenous and endogenous origin to cross otherwise impermeable cell membranes. The multidrug and toxin extrusion (MATE) transporters mediate cellular efflux of a variety of organic cations, including many drugs, and are involved in excretion of toxic electrolytes through urine and bile. Members of the MATE family share homology with the bacterial MATE protein family, which is responsible for drug resistance. MATE1 (multidrug and toxin extrusion protein 1), also known as SLC47A1, is a 570 amino acid multi-pass membrane protein that predominantly localizes to the plasma membrane but is also found in intracellular organelles. Expressed in adrenal gland, and to a lower extent in liver, skeletal muscle and kidney, MATE1 is responsible for the secretion of cationic drugs across the brush border membranes. MATE1 exists as three isoforms, which are produced by alternative splicing events.

**REFERENCES**


**CHROMOSOMAL LOCATION**


**SOURCE**

MATE1 (E-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of MATE1 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, sc-133390 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

MATE1 (E-13) is recommended for detection of MATE1 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with MATE1-2.

Suitable for use as control antibody for MATE1 siRNA (h): sc-93923, MATE1 shRNA Plasmid (h): sc-93923-SH and MATE1 shRNA (h) Lentiviral Particles: sc-93923-V.

Molecular Weight of MATE1 isoforms: 32/62/64 kDa.

**REFERENCES**


**DATA**

**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 website at www.scbt.com or our catalog for detailed protocols and support products.