BACKGROUND

The norepinephrine transporter encoded by SLC6A2 is a multi-pass membrane protein that terminates noradrenergic signaling by rapid re-uptake of neuronally released norepinephrine (NE) into presynaptic terminals. It belongs to the sodium: neurotransmitter symporter (SNF) family and interacts with PRKCABP. The norepinephrine transporter regulates NE-mediated behavioral and physiological effects, including mood, depression, feeding behavior, cognition, regulation of blood pressure and heart rate. Consequently, the norepinephrine transporter is the target of several drugs used in the treatment or diagnosis of disorders, including depression, attention-deficit hyperactivity disorder and feeding disturbances. Defects in SLC6A2, the gene encoding the norepinephrine transporter, can cause orthostatic intolerance, a syndrome that is associated with postural tachycardia and is characterized by lightheadedness, fatigue, altered mentation and syncope.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: SLC6A2 (human) mapping to 16q12.2; Slc6a2 (mouse) mapping to 8 C5.

SOURCE

SLC6A2 (H-67) is a rabbit polyclonal antibody raised against amino acids 551-617 mapping within a C-terminal cytoplasmic domain of norepinephrine transporter of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SLC6A2 (H-67) is recommended for detection of norepinephrine transporter 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)], immunoassay (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SLC6A2 siRNA (h): sc-61215 and SLC6A2 siRNA (m): sc-61216.

Molecular Weight of SLC6A2: 58 kDa.

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-2780 (dilution range: 1:50-1:400) or goat anti-rabbit IgG-TR: sc-2012 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.