



TAAR5 (E-16): sc-50275

BACKGROUND

The novel family of G protein-coupled receptors known as trace-amine-associated receptors, TAAR, are biogenic amines present in very low levels in mammalian tissue. These proteins have defined roles as neurotransmitters in invertebrates, making their receptors significant therapeutic targets. TAAR5 (trace amine-associated receptor 5, PNR) is a multi-pass 338 amino acid membrane protein expressed almost exclusively in skeletal muscle and selected areas of the brain, such as the amygdala, hippocampus, caudate nucleus, thalamus and hypothalamus, with weak expression also observed in the substantia nigra. It contains a seven-transmembrane domain characteristic of G protein-coupled receptors and a potential N-glycosylation site. TAAR proteins, including TAAR5, are being investigated as potential targets for drugs of abuse including amphetamine and MDMA as well as neuropsychiatric disorders such as schizophrenia, depression and attention deficit disorder.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TAAR5 (human) mapping to 6q23; Taar5 (mouse) mapping to 10 A4.

SOURCE

TAAR5 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TAAR5 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.

Blocking peptide available for competition studies, sc-50275 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TAAR5 (E-16) is recommended for detection of TAAR5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for TAAR5 siRNA (h): sc-61375 and TAAR5 siRNA (m): sc-61376; and as shRNA Plasmid control antibody for TAAR5 shRNA Plasmid (h): sc-61375-SH and TAAR5 shRNA Plasmid (m): sc-61376-SH.

Molecular Weight of TAAR5: 38 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.