

T2R41 (E-14): sc-165641

BACKGROUND

G protein-coupled receptors (GPRs), also known as seven transmembrane receptors, heptahelical receptors or 7TM receptors, comprise a superfamily of proteins that play a role in many different stimulus-response pathways. G protein-coupled receptors translate extracellular signals into intracellular signals (G protein activation) and they respond to a variety of signaling molecules, such as hormones and neurotransmitters. T2R41 (taste receptor, type 2, member 41), also known as TAS2R41 or T2R59, is a 307 amino acid multi-pass membrane protein that belongs to the G protein-coupled receptor superfamily. Expressed in taste receptor cells, as well as in gustducin-positive cells, T2R41 functions as a receptor that is thought to play a role in the perception of bitterness, as well as the recognition of gastrointestinal chemicals.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TAS2R41 (human) mapping to 7q35.

SOURCE

T2R41 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of T2R41 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-165641 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

T2R41 (E-14) is recommended for detection of T2R41 of 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); non cross-reactive with other T2R family members.

Suitable for use as control antibody for T2R41 siRNA (h): sc-89717, T2R41 shRNA Plasmid (h): sc-89717-SH and T2R41 shRNA (h) Lentiviral Particles: sc-89717-V.

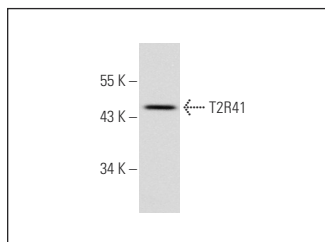
Molecular Weight of T2R41: 36 kDa.

Positive Controls: human skeletal muscle extract: sc-363776.

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.

DATA



T2R41 (E-14): sc-165641. Western blot analysis of T2R41 expression in human skeletal muscle tissue extract.

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.