



T1R1 (H-120): sc-50307

BACKGROUND

T1R1 (TR1, T1R1, GPR70, gm148, taste receptor type 1 member 1, TAS1R1) is a G protein-coupled receptor and is a component of the heterodimeric amino acid taste receptor T1R1+3. T1R1+3 responds to L-amino acids that are perceived as sweet. Multiple transcript variants encoding several different isoforms have been found for this gene. The T1R receptors are a family of taste-specific class C G protein-coupled receptors. PLC β 2 and IP3R3 co-localize together with G $_{12}$ as downstream components of two different types of taste receptors, T1R and T2R, in taste bud cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TAS1R1 (human) mapping to 1p36.23; Tas1r1 (mouse) mapping to 4 E2.

SOURCE

T1R1 (H-120) is a rabbit polyclonal antibody raised against amino acids 274-393 mapping within an extracellular domain of T1R1 of human origin.

PRODUCT

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

STORAGE

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

APPLICATIONS

T1R1 (H-120) is recommended for detection of T1R1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1–2 μ g per 100–500 μ g 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).

Suitable for use as control antibody for T1R1 siRNA (h): sc-45318.

Molecular Weight of T1R1: 93.4 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-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.