

OR5T2 (M-25): sc-102048

BACKGROUND

Olfactory receptors are G protein-coupled receptors that localize to the cilia of olfactory sensory neurons where they display affinity for and bind to a variety of odor molecules. The genes encoding olfactory receptors comprise the largest family in the human genome. The binding of olfactory receptor proteins to odor molecules triggers a signal transduction that propagates nerve impulses throughout the body, ultimately leading to transmission of the signal to the brain and the subsequent perception of smell. OR5T2 (olfactory receptor 5T2), also known as OR11-177, is a 329 amino acid multi-pass membrane protein that functions as an odorant receptor and, like other members of the olfactory receptor family, binds specific odor molecules and participates in propagating the olfactory response.

REFERENCES

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- Rinaldi, A. 2007. The scent of life. The exquisite complexity of the sense of smell in animals and humans. *EMBO Rep.* 8: 629-633.

CHROMOSOMAL LOCATION

Genetic locus: OR5T2 (human) mapping to 11q11.

SOURCE

OR5T2 (M-25) is a purified rabbit polyclonal antibody raised against OR5T2 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

PRODUCT

Each vial contains 50 >µg IgG in 500 >µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

OR5T2 (M-25) is recommended for detection of OR5T2 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for OR5T2 siRNA (h): sc-96499, OR5T2 shRNA Plasmid (h): sc-96499-SH and OR5T2 shRNA (h) Lentiviral Particles: sc-96499-V.

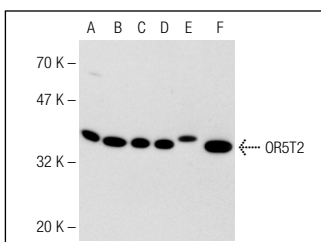
Molecular Weight of OR5T2: 37 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, A549 cell lysate: sc-2413 or C32 whole cell lysate: sc-2205.

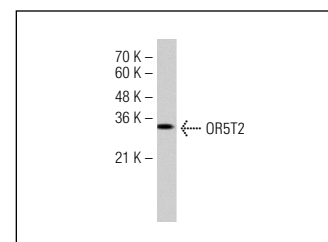
RECOMMENDED SECONDARY REAGENTS

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).

DATA



OR5T2 (M-25): sc-102048. Western blot analysis of OR5T2 expression in IMR-32 (A), SK-N-MC (B), WI 38 (C), A549 (D), C32 (E) and SW480 (F) whole cell lysates.



OR5T2 (M-25): sc-102048. Western blot analysis of OR5T2 expression in Jurkat whole cell lysate.

RESEARCH USE

For research use only, not for use in diagnostic procedures.