# OR1G1 (F-13): sc-107862



The Power to Question

## **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. OR1G1 (olfactory receptor 1G1) is a 313 amino acid protein. The gene encoding OR1G1 maps to human chromosome 17.

## **REFERENCES**

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- Gaillard, I., Rouquier, S. and Giorgi, D. 2004. Olfactory receptors. Cell. Mol. Life Sci. 61: 456-469.
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- 7. 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: OR1G1 (human) mapping to 17p13.3.

# SOURCE

OR1G1 (F-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of OR1G1 of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107862 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **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.

#### **APPLICATIONS**

OR1G1 (F-13) is recommended for detection of OR1G1 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)], 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 OR1 family members.

Suitable for use as control antibody for OR1G1 siRNA (h): sc-93989, OR1G1 shRNA Plasmid (h): sc-93989-SH and OR1G1 shRNA (h) Lentiviral Particles: sc-93989-V.

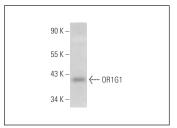
Molecular Weight of OR1G1: 35 kDa.

Positive Controls: human testis extract: sc-363781.

#### **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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



OR1G1 (F-13): sc-107862. Western blot analysis of OR1G1 expression in human testis tissue extract.

# **RESEARCH USE**

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

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