

# STG (D-13): sc-163386

## BACKGROUND

STG, also known as C6orf15 (chromosome 6 open reading frame 15), is a 325 amino acid protein that binds numerous extracellular matrix proteins and is expressed in taste buds, skin and tonsils. STG is a secreted protein that contains an N-terminal signal peptide, potential O-glycosylation sites and multiple tandem repeats. STG localizes to the extracellular matrix and likely plays a role in taste cell physiology. STG is encoded by a gene that maps to human chromosome 6p21.33, a region associated with lung cancer and follicular lymphoma susceptibility. Psoriasis-susceptibility region 1 (PSORS1) also maps to human chromosome 6p21, but STG is no longer a significantly associated with the development of psoriasis.

## REFERENCES

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2. Neira, M., et al. 2001. A new gene (rmSTG) specific for taste buds is found by laser capture microdissection. *Mamm. Genome* 12: 60-66.
3. Sánchez, F., et al. 2004. STG does not associate with psoriasis in the Swedish population. *Exp. Dermatol.* 13: 413-418.
4. Valdimarsson, H. 2007. The genetic basis of psoriasis. *Clin. Dermatol.* 25: 563-567.
5. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 611401. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Wang, Y., et al. 2008. Common 5p15.33 and 6p21.33 variants influence lung cancer risk. *Nat. Genet.* 40: 1407-1409.
7. Skibola, C.F., et al. 2009. Genetic variants at 6p21.33 are associated with susceptibility to follicular lymphoma. *Nat. Genet.* 41: 873-875.

## CHROMOSOMAL LOCATION

Genetic locus: C6orf15 (human) mapping to 6p21.33.

## SOURCE

STG (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of STG 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-163386 P, (100 µg 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.

## APPLICATIONS

STG (D-13) is recommended for detection of STG 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).

Suitable for use as control antibody for STG siRNA (h): sc-95108, STG shRNA Plasmid (h): sc-95108-SH and STG shRNA (h) Lentiviral Particles: sc-95108-V.

Molecular Weight of STG: 34 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.