# SANTA CRUZ BIOTECHNOLOGY, INC.

# GLTSCR1 (C-15): sc-240518



#### BACKGROUND

GLTSCR1 (glioma tumor suppressor candidate region gene 1 protein) is a 1,560 amino acid protein. A polymorphism within the GLTSCR1 gene has been associated with prostate carcinoma aggressiveness. GLTSCR1 is expressed at moderate levels in heart, brain, placenta, skeletal muscle and pancreas, with lower levels in lung, liver and kidney. GLTSCR1 is highly conserved among humans, chimps, mice and rats. GLTSCR1 exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 19q13.32. Chromosome 19 consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (lg) superfamily members, including the killer cell and leukocyte lg-like receptors, a number of ICAMs, the CEACAM and PSG families and Fc receptors (FcRs).

## REFERENCES

- 1. Teglund, S., et al. 1994. The pregnancy-specific glycoprotein (PSG) gene cluster on human chromosome 19: fine structure of the 11 PSG genes and identification of 6 new genes forming a third subgroup within the carcinoembryonic antigen (CEA) family. Genomics 23: 669-684.
- 2. Smith, J.S., et al. 2000. A transcript map of the chromosome 19q-arm glioma tumor suppressor region. Genomics 64: 44-50.
- 3. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 605690. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/605690
- 4. Yin, J., et al. 2002. Multiple single nucleotide polymorphisms on human chromosome 19q13.2-3 associate with risk of Basal cell carcinoma. Cancer Epidemiol. Biomarkers Prev. 11: 1449-1453.
- 5. Yang, P., et al. 2005. Polymorphisms in GLTSCR1 and ERCC2 are associated with the development of oligodendrogliomas. Cancer 103: 2363-2372.
- 6. Barrow, A.D., et al. 2008. The extended human leukocyte receptor complex: diverse ways of modulating immune responses. Immunol. Rev. 224: 98-123.
- 7. Rajaraman, P., et al. 2010. DNA repair gene polymorphisms and risk of adult meningioma, glioma, and acoustic neuroma. Neurooncology 12: 37-48.

# CHROMOSOMAL LOCATION

Genetic locus: GLTSCR1 (human) mapping to 19q13.33; Gltscr1 (mouse) mapping to 7 A2.

#### SOURCE

GLTSCR1 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of GLTSCR1 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 200 µg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-240518 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

GLTSCR1 (C-15) is recommended for detection of GLTSCR1 of mouse, rat and 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).

GLTSCR1 (C-15) is also recommended for detection of GLTSCR1 in additional species, including canine and porcine.

Suitable for use as control antibody for GLTSCR1 siRNA (h): sc-97514, GLTSCR1 siRNA (m): sc-145443, GLTSCR1 shRNA Plasmid (h): sc-97514-SH, GLTSCR1 shRNA Plasmid (m): sc-145443-SH, GLTSCR1 shRNA (h) Lentiviral Particles: sc-97514-V and GLTSCR1 shRNA (m) Lentiviral Particles: sc-145443-V.

Molecular Weight of GLTSCR1 isoform 1: 158 kDa.

Molecular Weight of GLTSCR1 isoform 2: 134 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.

# MONOS Satisfation Guaranteed

Try GLTSCR1 (H-10): sc-515086, our highly recommended monoclonal alternative to GLTSCR1 (C-15).