

# GSC2 (N-15): sc-86476

## BACKGROUND

GSC2 (homeobox protein goosecoid-2), also known as GSCL (homeobox protein goosecoid-like), is a 205 amino acid nuclear protein that shares high homology to GSC, a protein involved in the development of the lower mandible and its associated musculature as well as components of the inner ear and the external auditory meatus. Since its expression pattern begins in early embryo, GSC2 may play an indirect role in the development of neural crest-derived structures. Due to its chromosomal location and its role in early development, the gene encoding GSC2 is a major candidate for del22q11.21 (DiGeorge or velocardiofacial) syndrome, a disease characterized by craniofacial defects, thymic hypoplasia, cardiovascular anomalies, velopharyngeal insufficiency and skeletal muscle hypotonia.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: GSC2 (human) mapping to 22q11.21; Gsc2 (mouse) mapping to 16 A3.

## SOURCE

GSC2 (N-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of GSC2 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-86476 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

GSC2 (N-15) is recommended for detection of GSC2 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); non cross-reactive with GSC.

GSC2 (N-15) is also recommended for detection of GSC2 in additional species, including porcine.

Suitable for use as control antibody for GSC2 siRNA (h): sc-105420, GSC2 siRNA (m): sc-145794, GSC2 shRNA Plasmid (h): sc-105420-SH, GSC2 shRNA Plasmid (m): sc-145794-SH, GSC2 shRNA (h) Lentiviral Particles: sc-105420-V and GSC2 shRNA (m) Lentiviral Particles: sc-145794-V.

Molecular Weight of GSC2: 22 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) 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.

## STORAGE

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

## 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.