

# GLIS1 (S-16): sc-67588

## BACKGROUND

GLIS1 is a 789 amino acid protein encoded by the human gene GLIS1. Located in the nucleus, GLIS1 acts as both a repressor and activator of transcription. GLIS1 belongs to the GLI C<sub>2</sub>H<sub>2</sub>-type zinc finger protein family and contains five C<sub>2</sub>H<sub>2</sub>-type zinc fingers. GLIS1 is expressed in a temporal and spatial manner during development, with expression being most prominent in several defined structures of mesodermal lineage. These include craniofacial regions, branchial arches, somites, vibrissal and hair follicles, limb buds and myotomes. GLIS1 is a novel Krüppel-like protein that binds to the consensus sequence 5'-GACCACCCAC-3'. The Krüppel gene family is characterized by a consensus C<sub>2</sub>H<sub>2</sub> zinc finger domain and is believed to function as a transcription activator in the vertebrate sonic hedgehog (Shh)-patched signal transduction pathway. Understanding GLI gene regulation may be of importance to understanding causes of human birth defects and cancer.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Glis1 (mouse) mapping to 4 C6.

## SOURCE

GLIS1 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GLIS1 of mouse origin.

## 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.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-67588 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-67588 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

GLIS1 (S-16) is recommended for detection of GLIS1 of mouse and rat 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).

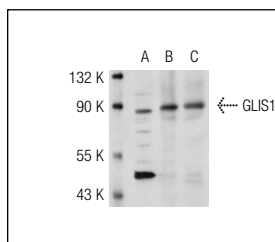
Suitable for use as control antibody for GLIS1 siRNA (m): sc-62381, GLIS1 shRNA Plasmid (m): sc-62381-SH and GLIS1 shRNA (m) Lentiviral Particles: sc-62381-V.

GLIS1 (S-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

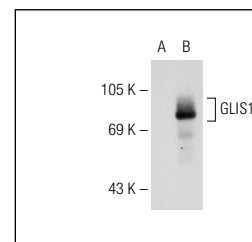
Molecular Weight of GLIS1: 84 kDa.

Positive Controls: GLIS1 (m): 293T Lysate: sc-125388, mouse kidney extract: sc-2255 or KNRK nuclear extract: sc-2141.

## DATA



GLIS1 (S-16): sc-67588. Western blot analysis of GLIS1 expression in KNRK nuclear extract (A) and mouse embryo (B) and mouse kidney (C) tissue extracts.



GLIS1 (S-16): sc-67588. Western blot analysis of GLIS1 expression in non-transfected: sc-117752 (A) and mouse GLIS1 transfected: sc-125388 (B) 293T whole cell lysates.

## PROTOCOLS

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