

# IGSF1 (N-14): sc-161730

## BACKGROUND

IGSF1 (immunoglobulin superfamily member 1, inhibin-binding protein) is a highly glycosylated immunoglobulin domain-containing protein. IGSF1 has been shown to act as a co-receptor in inhibin signaling, however, it does not appear to be a high-affinity inhibin receptor by itself. May reduce or inhibit activin A signaling and is believed to be necessary in the mediation of specific effects of inhibin B on activin-stimulated transcription. IGSF1 has been found to interact with several members of the ACVR family and possibly some members of the BMPR group. There are three known isoforms of IGSF1, with one and two likely being multi-pass membrane proteins. Isoform 3 is believed to be expressed as a secreted form. Expression is high in pancreas, testis and fetal liver, while heart, prostate and small intestine show only moderate expression. IGSF1 may be found at very low levels in brain, muscle, thymus, ovary, colon, fetal lung and fetal kidney. Isoform 3 has been detected in pituitary gland.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: IGSF1 (human) mapping to Xq26.2; Igsf1 (mouse) mapping to X A5.

## SOURCE

IGSF1 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of IGSF1 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-161730 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

IGSF1 (N-14) is recommended for detection of IGSF1 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 other IGSF family members.

IGSF1 (N-14) is also recommended for detection of IGSF1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for IGSF1 siRNA (h): sc-91038, IGSF1 siRNA (m): sc-146185, IGSF1 shRNA Plasmid (h): sc-91038-SH, IGSF1 shRNA Plasmid (m): sc-146185-SH, IGSF1 shRNA (h) Lentiviral Particles: sc-91038-V and IGSF1 shRNA (m) Lentiviral Particles: sc-146185-V.

Molecular Weight of IGSF1 Uniprot: 150 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.

## 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.