# IGSF9B (C-16): sc-247199



The Power to Question

#### **BACKGROUND**

IGSF9B (immunoglobulin superfamily member 9B), also known as protein turtle homolog B or KIAA1030, is a 1,349 amino acid single-pass type I membrane protein that belongs to the immunoglobulin superfamily and turtle family. Members of this family of proteins usually localize to the cell membrane, and may act as receptors in immune response pathways. Containing two fibronectin type-III domains and five Ig-like (immunoglobulin-like) domains, IGSF9B may be involved in cell signaling. IGSF9B is highly expressed in brain, with lower levels of expression found in heart, testis, ovary, liver, skeletal muscle, spinal cord and fetal brain. The gene encoding IGSF9B maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

#### **REFERENCES**

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- Schuchman, E.H. 2007. The pathogenesis and treatment of acid sphingomyelinase-deficient Niemann-Pick disease. J. Inherit. Metab. Dis. 30: 654-663.
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# **CHROMOSOMAL LOCATION**

Genetic locus: IGSF9B (human) mapping to 11q25.

## **SOURCE**

IGSF9B (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of IGSF9B 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.

#### **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-247199 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

IGSF9B (C-16) is recommended for detection of IGSF9B of human 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); non cross-reactive with IGSF9.

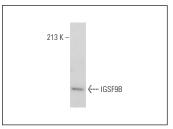
Molecular Weight of IGSF9B: 147 kDa.

Positive Controls: human heart extract: sc-363763.

#### **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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

### **DATA**



IGSF9B (C-16): sc-247199. Western blot analysis of IGSF9B expression in human heart tissue extract.

#### **RESEARCH USE**

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

# **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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