SANTA CRUZ BIOTECHNOLOGY, INC.

IGFL2 (C-13): sc-168136

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

IGFL2 (insulin growth factor-like family member 2) is a 119 amino acid secreted protein that belongs to the insulin-like growth factor (IGFL) family. Members of the IGFL family play an important role in prenatal growth, specifically in cellular energy metabolism during growth and development. Expressed in cerebellum, heart, placenta, spleen, stomach, testis and thymus, IGFL2 is a probable IGFLR1 cell membrane receptor ligand. Existing as two alternatively spliced isoforms, the gene encoding IGFL2 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 (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG families, and Fc receptors (FcRs).

REFERENCES

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3. Clark, H.F., et al. 2003. The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment. Genome Res. 13: 2265-2270.
4. Le Meur, N., et al. 2004. Complete germline deletion of the STK11 gene in a family with Peutz-Jeghers syndrome. Eur. J. Hum. Genet. 12: 415-418.
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CHROMOSOMAL LOCATION

Genetic locus: IGFL2 (human) mapping to 19q13.32.

SOURCE

IGFL2 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of IGFL2 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-168136 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

IGFL2 (C-13) is recommended for detection of IGFL2 of 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); may cross-react with LAMA3.

Suitable for use as control antibody for IGFL2 siRNA (h): sc-97094, IGFL2 shRNA Plasmid (h): sc-97094-SH and IGFL2 shRNA (h) Lentiviral Particles: sc-97094-V.

Molecular Weight of IGFL2 isoforms 1/2: 13/14 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 or our catalog for detailed protocols and support products.