SANTA CRUZ BIOTECHNOLOGY, INC.

IGFL3 (T-14): sc-243060

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The Insulin gene family, comprised of Insulin, relaxin and Insulin-like growth factors I and II (IGF-I and IGF-II), represents a group of structurally related polypeptides whose biological functions have diverged. The IGFs, or somatomedins, constitute a class of polypeptides that have a key role in pre-adolescent mammalian growth. IGFL3 (IGF-like family member 3), also known as UNQ483, is a 125 amino acid secreted protein that belongs to the IGF family and is thought to play a role in energy metabolism and growth and developmental events. Expressed at high levels in brain tissue, IGFL3 contains 2 CC motifs and 11 regularly spaced cysteine residues and is encoded by a gene which maps to an IGFL cluster on chromosome 19.

REFERENCES

1. Aro, A.L., et al. 2002. Expression of Insulin-like growth factors IGF-I and IGF-II and their receptors during the growth and megakaryocytic differentiation of K562 cells. Leuk. Res. 26: 831-837.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 610546. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
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. Zhang, Z., et al. 2004. Signal peptide prediction based on analysis of experimentally verified cleavage sites. Protein Sci. 13: 2819-2824.
5. Emtage, P., et al. 2006. IGFL: A secreted family with conserved cysteine residues and similarities to the IGF superfamily. Genomics 88: 513-520.

CHROMOSOMAL LOCATION

Genetic locus: IGFL3 (human) mapping to 19q13.32.

SOURCE

IGFL3 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IGFL3 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-243060 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

PROTOCOLS

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

APPLICATIONS

IGFL3 (T-14) is recommended for detection of IGFL3 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); non cross-reactive with IGFL1, IGFL2 or IGFL4.

Suitable for use as control antibody for IGFL3 siRNA (h): sc-97594, IGFL3 shRNA Plasmid (h): sc-97594-SH and IGFL3 shRNA (h) Lentiviral Particles: sc-97594-V.

Molecular Weight of IGFL3: 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.

RESEARCH USE

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