

FLRT3 (H-96): sc-98656

BACKGROUND

FLRT3 (Fibronectin leucine-rich transmembrane protein 3), also known as KIAA1469, is a 649 amino acid single-pass type I membrane protein that contains one Fibronectin type-III domain and 10 leucine-rich repeats and belongs to the Fibronectin leucine-rich transmembrane protein (FLRT) family. Expressed in heart, liver, lung, kidney, pancreas, brain, placenta and skeletal muscle, FLRT3 is thought to be involved in receptor signaling events and may play a role in both cell adhesion and neurite outgrowth. Defects in the gene encoding mouse FLRT3 may lead to ventral closure, headfold fusion and endoderm migration defects, suggesting that FLRT3 is important for proper cell differentiation and development. FLRT3 exists as multiple alternatively spliced isoforms that are encoded by a gene which maps to human chromosome 20.

REFERENCES

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- Maretto, S., et al. 2008. Ventral closure, headfold fusion and definitive endoderm migration defects in mouse embryos lacking the Fibronectin leucine-rich transmembrane protein FLRT3. *Dev. Biol.* 318: 184-193.
- Egea, J., et al. 2008. Genetic ablation of FLRT3 reveals a novel morphogenetic function for the anterior visceral endoderm in suppressing mesoderm differentiation. *Genes Dev.* 22: 3349-3362.

CHROMOSOMAL LOCATION

Genetic locus: FLRT3 (human) mapping to 20p12.1; Flrt3 (mouse) mapping to 2 F3.

SOURCE

FLRT3 (H-96) is a rabbit polyclonal antibody raised against amino acids 345-440 mapping within an internal region of FLRT3 of human origin.

PRODUCT

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

APPLICATIONS

FLRT3 (H-96) is recommended for detection of FLRT3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

FLRT3 (H-96) is also recommended for detection of FLRT3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FLRT3 siRNA (h): sc-75038, FLRT3 siRNA (m): sc-145200, FLRT3 shRNA Plasmid (h): sc-75038-SH, FLRT3 siRNA (m): sc-145200-SH, FLRT3 shRNA (h) Lentiviral Particles: sc-75038-V and FLRT3 shRNA (h) Lentiviral Particles: sc-145200-V.

Molecular Weight of FLRT3: 90 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.



MONOS
Satisfaction
Guaranteed

Try **FLRT3 (A-3): sc-514482**, our highly recommended monoclonal alternative to FLRT3 (H-96).