

GIOT-1 (S-17): sc-82610



The Power to Question

BACKGROUND

GIOT-1 (Gonadotropin-inducible transcription repressor 1), also known as ZNF 461 (zinc finger protein 461) is a 563 amino acid protein belonging to the Krüppel C₂H₂-type zinc-finger protein family. Localized to the nucleus, GIOT-1 is widely expressed in tissues, with highest levels in liver, kidney, small intestine, pancreas and thymus. GIOT-1 contains 12 C₂H₂-type zinc fingers and one KRAB domain. Because the KRAB domain functions as a transcriptional repressor when attached to the template DNA, GIOT-1 is thought to be involved in transcriptional regulation. The gene encoding GIOT-1 is localized to chromosome 19q13.12 and two isoforms of GIOT-1 exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF461 (human) mapping to 19q13.12.

SOURCE

GIOT-1 (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GIOT-1 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-82610 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GIOT-1 (S-17) is recommended for detection of GIOT-1 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 isoform GIOT1-2.

Suitable for use as control antibody for GIOT-1 siRNA (h): sc-75130, GIOT-1 shRNA Plasmid (h): sc-75130-SH and GIOT-1 shRNA (h) Lentiviral Particles: sc-75130-V.

Molecular Weight of GIOT-1: 66 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.