

INSL5 (H-110): sc-67190

BACKGROUND

Insulin gene superfamily hormones modulate metabolism, cell growth and tissue-specific functions. Members of this superfamily are characterized by a signal peptide, a B chain, a connecting C chain and an A chain. Insulin-like peptides (INSL proteins), also designated Relaxin-like factors, are mostly secreted proteins that are expressed mainly in testis, placenta, uterus or prenatal tissues. The deduced 135 amino acid INSL5 protein, which shares 40% and 59% sequence homology with human RLN1 and mouse INSL5, respectively, contains a dibasic cleavage site between the B and C chains. INSL5 exists as a heterodimer of a B chain and an A chain which are linked by two disulfide bonds. INSL5 is thought to play a role in gut contractility or in thymic development and regulation, as it demonstrates predominant expression in the rectum, and intermediate expression in the uterus and ascending and descending colon.

REFERENCES

1. Conklin, D., et al. 1999. Identification of INSL5, a new member of the Insulin superfamily. *Genomics* 60: 50-56.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 606413. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: INSL5 (human) mapping to 1p31.3.

SOURCE

INSL5 (H-110) is a rabbit polyclonal antibody raised against amino acids 26-135 mapping at the C-terminus of INSL5 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.

RESEARCH USE

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

APPLICATIONS

INSL5 (H-110) is recommended for detection of INSL5 precursor, A chain and B chain 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for INSL5 siRNA (h): sc-60857, INSL5 shRNA Plasmid (h): sc-60857-SH and INSL5 shRNA (h) Lentiviral Particles: sc-60857-V.

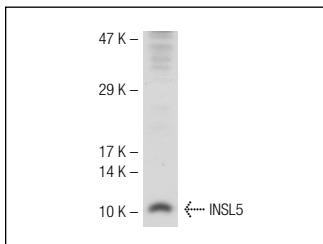
Molecular Weight of INSL5: 16 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

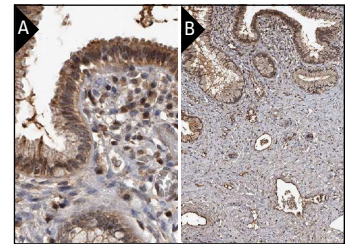
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



INSL5 (H-110): sc-67190. Western blot analysis of INSL5 expression in NIH/3T3 whole cell lysate.



INSL5 (H-110): sc-67190. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cervix, uterine showing cytoplasmic staining of glandular cells at high (A) and low (B) magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

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.


 MONOS
Satisfaction
Guaranteed

Try **INSL5 (A-12): sc-166804**, our highly recommended monoclonal alternative to INSL5 (H-110).