**BACKGROUND**

Insulin-like factor 3 (INSL3), also designated Leydig Insulin-like peptide (LeyIL) and Relaxin-like factor (RLF), is a peptide hormone in the Relaxin family which is secreted from the testicular Leydig cells and ovarian theca interna cells. INSL3 is involved in gonadal and other physiological processes. Structurally similar to relaxin and Insulin, INSL3 differs from the two in that it signals through a G protein-coupled receptor, LGR8. INSL3/LGR8 signaling is involved in gubernaculum development and transabdominal testicular descent during development. Abnormal INSL3 production or action by the fetal testis causes cryptorchidism, a developmental defect of the urogenital tract in human males wherein the testis do not descend into the scrotum during embryonic development. Infertility and the development of germ-cell tumors are two potential risks for individuals with cryptorchidism.

**REFERENCES**


**APPLICATIONS**

INSL3 (M-122) is recommended for detection of INSL3 of mouse and rat 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of INSL3: 7 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.

**SELECT PRODUCT CITATIONS**


**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.