# INSL5 (m): 293T Lysate: sc-125496



The Power to Question

## **BACKGROUND**

INSL5 (Insulin-like peptide INSL5, relaxin/Insulin-like protein) is a 135 amino acid protein encoded by the human gene INSL5. The 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. INSL proteins are mostly secreted proteins that are expressed mainly in testes, placenta, uterus or prenatal tissues. INSL5 shares 40% and 59% sequence homology with human RLN1 and mouse Insl5, respectively, and 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/
- 3. Liu, C., et al. 2005. Recent progress in Relaxin 3-related research. Ann. N.Y. Acad. Sci. 1041: 47-60.
- Hsu, S.Y., et al. 2005. Evolution of the signaling system in relaxin-family peptides. Ann. N.Y. Acad. Sci. 1041: 520-529.
- 5. Wilkinson, T.N., et al. 2005. Evolution of the relaxin-like peptide family: from neuropeptide to reproduction. Ann. N.Y. Acad. Sci. 1041: 530-533.
- Liu, C., et al. 2005. INSL5 is a high affinity specific agonist for GPCR142 (GPR100). J. Biol. Chem. 280: 292-300.
- 7. Wilkinson, T.N., et al. 2005. Evolution of the relaxin-like peptide family. BMC Evol. Biol. 5: 14.

## **CHROMOSOMAL LOCATION**

Genetic locus: Insl5 (mouse) mapping to 4 C6.

# **PRODUCT**

INSL5 (m): 293T Lysate represents a lysate of mouse INSL5 transfected 293T cells and is provided as 100  $\mu g$  protein in 200  $\mu l$  SDS-PAGE buffer.

## **APPLICATIONS**

INSL5 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive INSL5 antibodies. Recommended use:  $10-20~\mu l$  per lane.

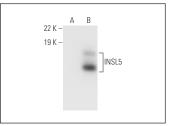
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

INSL5 (G-12): sc-398048 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse INSL5 expression in INSL5 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## **DATA**



INSL5 (G-12): sc-398048. Western blot analysis of INSL5 expression in non-transfected: sc-117752 (A) and mouse INSL5 transfected: sc-125496 (B) 293T whole rell lysates

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.