



## Polyclonal Anti-Insulin like 3, *INSL3* (Sepharose Bead Conjugate)

**Catalogue No.** PA1044-S

**Lot No.** 0101012094483

**Ig type:** rabbit IgG

**Size:** 100µg/vial

**Specificity**

Human, mouse, rat. No cross reactivity with other proteins.

**Recommended application**

*(Immunoprecipitation(IP))*

**Immunogen**

A synthetic peptide corresponding to a sequence of the C-terminal of human INSL3 (115-131aa), different from the related rat and mouse sequence by three amino acids.

**Purification**

Immunogen affinity purified.

**Storage**

At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for longer time.

**BACKGROUND**

Insulin-like 3 (INSL3), a member of the insulin-like hormone superfamily, is specifically expressed in Leydig cells of the fetal and postnatal testis and in theca cells of the postnatal ovary. It is synthesized as a 131-amino acid preproprotein, which contains a 24-amino acid signal peptide. The human INSL3 gene is assigned to bands p13.2-p12 of the short arm of chromosome 19 with the similar organization to that of insulin and relaxin. INSL3 induces gubernaculum development in an androgen-independent way, while androgen-mediated regression of the CSL occurs independently from InsI3. Moreover, INSL3 is a ligand for LGR8 and INSL3-LGR8 mutations are believed to be associated with human cryptorchidism.

**REFERENCE**

1. Adham IM, Burkhardt E, Benahmed M, Engel W. Cloning of a cDNA for a novel insulin-like peptide of the testicular Leydig cells. *J Biol Chem.* 1993 Dec 15; 268(35):26668-72.
2. Burkhardt E, Adham IM, Brosig B, Gastmann A, Mattei MG, Engel W. Structural organization of the porcine and human genes coding for a Leydig cell-specific insulin-like peptide (LEY I-L) and chromosomal localization of the human gene (INSL3). *Genomics.* 1994 Mar 1; 20(1):13-9.
3. Zimmermann S, Steding G, Emmen JM, Brinkmann AO, Nayernia K, Holstein AF, Engel W, Adham IM. Targeted disruption of the InsI3 gene causes bilateral cryptorchidism. *Mol Endocrinol.* 1999 May; 13(5):681-91.
4. Foresta C, Ferlin A. Role of INSL3 and LGR8 in cryptorchidism and testicular functions. *Reprod Biomed Online.* 2004 Sep; 9(3):294-8.

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