



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

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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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