



Product Information Sheet

Polyclonal Anti-Insulin like 3, *INSL3*

Catalogue No. PA1044

Lot No. 0101012094483

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

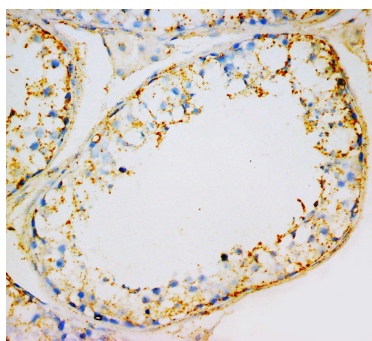
Human, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)



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.

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, rat	Ms	-
IHC-P	1µg/ml	Hu	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

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.

To reorder contact us at:

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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 Insl3. 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 Insl3 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.