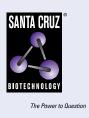
SANTA CRUZ BIOTECHNOLOGY, INC.

Lutropin β (C-6): sc-373941



BACKGROUND

Various hormones are secreted from the anterior pituitary gland during development and growth. Lutropin, also called luteinizing hormone (LH), plays a role in spermato-genesis and ovulation by stimulating the testis and ovaries to produce steroids. LH, like many of the anterior pituitary hormones, consists of heterodimers formed from a common α chain and a unique β chain. Lutropin exists in a variety of isoforms, as the hormone is proteolytically processed and metabolized throughout circulation. LH modulates the processing of Amyloid- β precursor protein and Amyloid- β deposition. Pituitary exit of LH and FSH occur via different secretion pathways, and are released spatially from the pituitary via different circulatory routes.

REFERENCES

- Couzinet, B., et al. 1993. The control of gonadotrophin secretion by ovarian steroids. Hum. Reprod. 8: 97-101.
- Birken, S., et al. 1996. Metabolism of hCG and hLH to multiply urinary forms. Mol. Cell. Endocrinol. 125: 121-131.
- 3. Sherman, G.B., et al. 1997. Characterization and phylogenetic significance of rhinoceros luteinizing hormone β (LH β) subunit messenger RNA structure, complementary DNA sequence and gene copy number. Gene 195: 131-139.

CHROMOSOMAL LOCATION

Genetic locus: LHB (human) mapping to 19q13.33; Lhb (mouse) mapping to 7 B4.

SOURCE

Lutropin β (C-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 109-135 near the C-terminus of Lutropin of rat origin.

PRODUCT

Each vial contains 200 μg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Lutropin β (C-6) is available conjugated to agarose (sc-373941 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-373941 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-373941 PE), fluorescein (sc-373941 FITC), Alexa Fluor[®] 488 (sc-373941 AF488), Alexa Fluor[®] 546 (sc-373941 AF546), Alexa Fluor[®] 594 (sc-373941 AF594) or Alexa Fluor[®] 647 (sc-373941 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-373941 AF680) or Alexa Fluor[®] 790 (sc-373941 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-373941 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

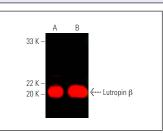
Lutropin β (C-6) is recommended for detection of Lutropin β of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

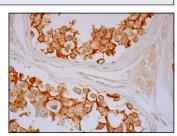
Suitable for use as control antibody for Lutropin β siRNA (h): sc-39319, Lutropin β siRNA (m): sc-39320, Lutropin β shRNA Plasmid (h): sc-39319-SH, Lutropin β shRNA Plasmid (m): sc-39320-SH, Lutropin β shRNA (h) Lentiviral Particles: sc-39319-V and Lutropin β shRNA (m) Lentiviral Particles: sc-39320-V.

Molecular Weight of Lutropin β : 22 kDa.

Positive Controls: mouse pituitary gland extract: sc-364246 or rat pituitary gland extract: sc-364807.

DATA





Lutropin β (C-6): sc-373941. Near-Infrared western blot analysis of Lutropin β expression in mouse pituitary gland (**A**) and rat pituitary gland (**B**) tissue extracts. Blocked with UltraCruz[®] Blocking Reagent: sc-516214. Detection reagent used: m-IgGk BP-CFL 790: sc-516181.

Lutropin β (C-6): sc-373941. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic and membrane staining of cells in seminiferous ducts.

SELECT PRODUCT CITATIONS

- Guo, Y., et al. 2021. miR-29a/b1 regulates the luteinizing hormone secretion and affects mouse ovulation. Front. Endocrinol. 12: 636220.
- Molina, E.M., et al. 2021. Effects of different DDE exposure paradigms on testicular steroid hormone secretion and hepatic oxidative stress in male Long-Evans rats. Gen. Comp. Endocrinol. 317: 113963.

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.