**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 testes 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**


**CHROMOSOMAL LOCATION**

Genetic locus: Lhb (mouse) mapping to 7 B4.

**SOURCE**

Lutropin β (A-9) is a mouse monoclonal antibody raised against amino acids 61-103 mapping within an internal region of Lutropin β of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG<sub>k</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Lutropin β (A-9) is recommended for detection of Lutropin β of mouse and rat origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (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 shRNA (m): sc-39320, Lutropin β shRNA Plasmid (m): sc-39320-SH 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 tissue extract.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG<sub>k</sub> HRP: sc-516102 or m-IgG<sub>k</sub> BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup>
Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
3) Immunofluorescence: use m-IgG<sub>k</sub> BP-ITC: sc-516140 or m-IgG<sub>k</sub> BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

**DATA**

Lutropin β (A-9) is recommended for detection of Lutropin β expression in mouse pituitary gland (A) and rat pituitary (B) tissue extracts.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. 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.