**BACKGROUND**

Various hormones are secreted from the anterior pituitary gland during development and growth. Lutropin, also called luteinizing hormone (LH), plays a role in spermatogenesis 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 (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 IgG, 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/IF and ELISA; to either phycocyanin (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/IF 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 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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**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 µg per 100-500 µg 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).


Molecular Weight of Lutropin β: 22 kDa.


**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

2. Immunoprecipitation: use Protein A/G PLUS-Agarose: sc:2003 (0.5 ml agarose/2.0 ml).

**DATA**

Lutropin β: sc:373941. Western blot analysis of Lutropin β expression in rat pituitary tissue extract.

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

**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.