**FSHβ (C-12): sc-374452**

**BACKGROUND**

Follicle-stimulating hormone (FSH), also called follicitropin, belongs to the family of glycoprotein hormones that also includes luteinizing hormone and thyroid-stimulating hormone. These hormones are secreted by the pituitary and exist as heterodimers, consisting of a common α subunit and a homologous but distinct β subunit. While the α subunit of FSH is involved in the binding of FSH to the receptor (follicle-stimulating hormone receptor, also known as FSHR), the β subunit stabilizes this interaction. This heterodimer regulates a variety of processes, including secretion, posttranslational modification and signal transduction. Both FSH and FSHR are localized to Sertoli cells.

**CHROMOSOMAL LOCATION**

Genetic locus: FSHB (human) mapping to 11p14.1; Fshb (mouse) mapping to 129 mapping at the C-terminus of FSHβ of human origin.

**SOURCE**

FSHβ (C-12) is a mouse monoclonal antibody raised against amino acids 48-129 mapping at the C-terminus of FSHβ of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FSHβ (C-12) is available conjugated to agarose (sc-374452 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374452 HRP), 200 µg/ml, for WB, IHC/IP and ELISA; to either phycoerythrin (sc-374452 PE), fluorescein (sc-374452 FITC), Alexa Fluor® 488 (sc-374452 AF488), Alexa Fluor® 546 (sc-374452 AF546), Alexa Fluor® 594 (sc-374452 AF594) or Alexa Fluor® 647 (sc-374452 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FCM; and to either Alexa Fluor® 680 (sc-374452 AF680) or Alexa Fluor® 790 (sc-374452 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

FSHβ (C-12) is recommended for detection of FSHβ 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FSHβ siRNA (h): sc-39315, FSHβ shRNA Plasmid (h): sc-39316, FSHβ shRNA Plasmid (m): sc-39316-SH, FSHβ shRNA (h) Lentiviral Particles: sc-39315-V and FSHβ shRNA (m) Lentiviral Particles: sc-39316-V.

Molecular Weight of nonglycosylated FSHβ: 21 kDa.
Molecular Weight of glycosylated FSHβ: 24 kDa.

Positive Controls: rat pituitary extract: sc-364807.

**RECOMMENDED SUPPORT REAGENTS**

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

1. Western Blotting: use m-IgGx BP-HRP: sc-516102 or m-IgGx BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Lumino Reagent: sc-2048. 2. Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
3. Immunofluorescence: use m-IgGx BP-FITC: sc-516140 or m-IgGx BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.