

FSH β (1038): sc-52332

BACKGROUND

Follicle-stimulating hormone (FSH), also called follitropin, 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 (FSHR), the β subunit stabilizes this interaction. This heterodimer regulates a variety of processes, including secretion, post-translational modification and signal transduction. Both FSH and FSHR are localized to Sertoli cells.

REFERENCES

1. Dias, J.A. 1996. Human follitropin heterodimerization and receptor binding structural motifs: identification and analysis by a combination of synthetic peptide and mutagenesis approaches. *Mol. Cell Endocrinol.* 125: 45-54.
2. Sugahara, T., et al. 1996. Expression of biologically active fusion genes encoding the common α subunit and either the CG β or FSH β subunits: role of a linker sequence. *Mol. Cell Endocrinol.* 125: 71-77.
3. Stanton, P.G., et al. 1996. Structural and functional characterisation of hFSH and hLH isoforms. *Mol. Cell Endocrinol.* 125: 133-141.
4. Arnold, C.J., et al. 1998. The human follitropin α subunit C terminus collaborates with a β subunit cystine noose and an α subunit loop to assemble a receptor-binding domain competent for signal transduction. *Biochemistry* 37: 1762-1768.
5. Baccetti, B., et al. 1998. Localization of human follicle-stimulating hormone in the testis. *FASEB J.* 12: 1045-1054.
6. Beau, I., et al. 1998. The basolateral localization signal of the follicle-stimulating hormone receptor. *J. Biol. Chem.* 273: 18610-18616.

CHROMOSOMAL LOCATION

Genetic locus: FSHB (human) mapping to 11p14.1.

SOURCE

FSH β (1038) is a mouse monoclonal antibody raised against isolated human Follicle Stimulating Hormone.

PRODUCT

Each vial contains 500 μ l ascites containing IgG₁ with < 0.1% sodium azide.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

PROTOCOLS

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

APPLICATIONS

FSH β (1038) is recommended for detection of FSH β of human origin by immunofluorescence (starting dilution to be determined by researcher, dilution range 1:10-1:200) and immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:10-1:200).

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

Molecular Weight of nonglycosylated FSH β : 21 kDa.

Molecular Weight of glycosylated FSH β : 24 kDa.

RESEARCH USE

For research use only, not for use in diagnostic procedures.