

Product Specification Sheet

Anti-Human Follicle stimulating hormone (FSH) Antibody

Cat # FSH13-A

Goat Anti-Human Follicle stimulating hormone IgG, aff pure

SIZE: 1 mg

FSH and human luteinizing hormone (LH) are glycoprotein hormones with mol. wt. Of approx. 30 kDa. Each hormone is composed of 2 polypeptide chains, alpha and beta subunits. LH, FHS, TSH, and HCG share the same alpha subunits. The beta subunit structure differs among these hormones and determines specificity and biological action.

FSH and LH are secreted by the basophilic cells of the anterior pituitary in response to the Gonadotropin-releasing hormone (GnRH) produced by the hypothalamus. In both males and females, FSH and LH control the development and maintenance of the gonadal tissue, which synthesize and secrete steroid hormones. In females, FSH controls the developing ovarian follicles and, in males, FSH maintaining spermatogenesis in the testes with the aid of LH and testosterone. LH promotes secretion of estrogen and progesterone by the ovary and of testosterone by the testes. LH also triggers ovulation. These steroid hormones control the circulating levels of LH and FSH by a negative feedback effects on the hypothalamus. The roles of FSH and LH are thus interrelated and mutually potentiating and for this reason are routinely performed concurrently in the differential diagnosis of hypothalamic, pituitary or gonadal dysfunction. Additionally, the hormone levels are used to assess the menstrual cycle for ovulation timing and monitoring of ovulation induction, determination of menopause and for monitoring endocrine therapy.

Source of Antigen and Antibodies

Antigen	Purified human FSH
Ab Host/type	Goat IgG (#FSH13-A). supplied in PBS/azide (0.05% is liquid or powder forms. Re-suspend powder in 100 ul water. Store frozen in suitable size aliquots.
2-Ab	Rabbit Anti-goat IgG-HRP conjugate Cat # 30220 (AP, biotin, FITC conjugates also available)
-ve	# 20011-1, Goat (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage

IgG

- 100ul
- solution lyophilized powder
- Buffer: PBS contains 0.05% sodium azide
- Reconstitute powder** 100 ul of PBS

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Specificity and crossreactivity

Anti-FSH IgG recognizes human FSH. Antibody crossreactivity with FSH from other species (mouse, rat etc) or other peptide hormones such as HCG, TSH, and LH have not been studies.

Recommended Usage

ELISA

Suitable for coating or tracer. Matching pair cat# FSH11-M.

Western Blotting (1:1K-5K) using Chemiluminescence substrates.

General References:

Fan QR (2005) Nature 433, 269-277; Glaser T (1986) Nature 321, 882; Layman LC (1997) *Eng. J. Med.* 337: 607-611; Walton WJ (2001) *J. Clin. Endocr. Metab.* 86: 3675

*This product is for In vitro research use only.

Related material available from ADI

LH, FSH, TSH, HCG ELISA kits

Antibodies to **LH, FSH, TSH, HCG ELISA**

FSH13-A

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