

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FSH β in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG _{2B} Clone # 961417
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FSH β Asn19-Glu129 Accession # P01225
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Follicle-stimulating hormone (FSH; also follitropin) is a 33 kDa heterodimer belonging to the glycoprotein hormones subunit beta family (1). The heterodimer is composed of two glycoproteins linked noncovalently: a common alpha subunit, which is also a component of luteinizing hormone, thyroid stimulating hormone, and chorionic gonadotropin; and a unique beta subunit that confers the protein's specific biological action and is responsible for the interaction with FSH-receptor. The alpha subunit is 20 kDa and is synthesized as a 116 amino acid (aa) precursor that contains a 24 aa signal sequence and a 92 aa mature chain, which contains two potential sites of N-linked glycosylation (1-2). The beta subunit is 23 kDa and is synthesized as a 129 aa precursor with an 18 aa signal sequence and a 111 aa mature chain, which also contains two potential sites of N-linked glycosylation (1). Human FSH beta shares approximately 90% aa sequence identity with mouse and rat FSH beta. FSH is secreted by gonadotropes of the anterior pituitary gland. Its release is controlled by pulses of gonadotropin-releasing hormone (GnRH), and those pulses, in turn, are subject to the estrogen feedback from the gonads. FSH regulates the development, growth, pubertal maturation, and reproductive processes of the human body. It promotes follicle maturation and spermatogenesis through interactions with FSH-receptor.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.