Human FSH β Alexa Fluor® 405-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 961417

Catalog Number: FAB43102V

100 µg

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	*E.coli*-derived recombinant human FSH β Asn19-Glu129 Accession # P01225
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

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