Follicle Stimulating Hormone Beta (FSHb) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Follicle Stimulating Hormone Beta (FSHb), Polyclonal Antibody
Full Product Name	Cy3-Linked Polyclonal Antibody to Follicle Stimulating Hormone Beta (FSHb)
Product Gene Name	anti-FSHb antibody
Product Synonym Names	FSH-B; Follitropin Subunit Beta
Immunogen Sequence	Asn19~Glu1 29
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	>=100ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against FSHb. It has been selected for its ability to recognize FSHb in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: FSHb (MBS2112268) Cy3 Conjugated Antibody: FSHb (MBS2121663)
Matching Pairs	Cy3 Conjugated Antibody: FSHb (MBS2121663) Immunogen: FSHb (MBS2105434)
Molecular Weight	10,624 Da
OMIM	188540
3D Structure	ModBase 3D Structure for P01222
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Sequence	Asn19~Glu129
Cross Reactivity	Human
Conjugation	Cy3
Product Categories/Family for anti-FSHb antibody	Reproductive Science
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-FSHb antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)

Related Product Information for anti-FSHb antibody	MBS2121663 is an antibody targeting FSHb. Also known as Cy3-Linked Polyclonal Antibody to Follicle Stimulating Hormone Beta (FSHb). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-FSHb antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FSHb. It may not necessarily be applicable to this product.

NCBI GI #	115430099
NCBI GeneID	7252
NCBI Accession #	NP_000540.2
UniProt Primary Accession #	P01222
UniProt Secondary Accession #	Q16163; B1AKP0
UniProt Related Accession #	P01222
GenBank Nucleotide #	NM_000549.4
NCBI Official Full Name	thyrotropin subunit beta isoform 1
NCBI Official Synonym Full Names	thyroid stimulating hormone, beta
NCBI Official Symbol	TSHB
NCBI Official Synonym Symbols	TSH-B; TSH-BETA
UniProt Protein Name	Thyrotropin subunit beta
UniProt Synonym Protein Names	Thyroid-stimulating hormone subunit beta; TSH-B; TSH-beta; Thyrotropin beta chain; INN: Thyrotropin alfa
Protein Family	Follitropin
UniProt Gene Name	TSHB
UniProt Synonym Gene Names	TSH-B; TSH-beta
UniProt Entry Name	TSHB_HUMAN
NCBI Protein Information	thyrotropin subunit beta; thyrotropin beta chain
NCBI Summary for FSHb	The four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH), follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimers consisting of alpha and beta subunits that are associated noncovalently. The alpha subunits of these hormones are identical, however, their beta chains are unique and confer biological specificity. Thyroid stimulating hormone functions in the control of thyroid structure and metabolism. The protein encoded by this gene is the beta subunit of thyroid stimulating hormone. Mutations in this gene are associated with congenital central and secondary hypothyroidism and Hashimoto's thyroiditis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]

UniProt Comments for FSHb	TSHB: Indispensable for the control of thyroid structure and metabolism. Belongs to the glycoprotein hormones subunit beta family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 1p13 Cellular Component: extracellular region Molecular Function: hormone activity Biological Process: G-protein coupled receptor protein signaling pathway; anatomical structure morphogenesis; cellular protein metabolic process; cell-cell signaling; response to estrogen stimulus; peptide hormone processing; response to calcium ion; response to vitamin A Disease: Hypothyroidism, Congenital, Nongoitrous, 4
Research Articles on FSHb	**1.** bTSH Induces IL-6 Protein and mRNA in Orbital Fibroblasts and Fibrocytes
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