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FSH-beta (Follicle Stimulating Hormone-beta) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM107]
Catalog # AH11247

Product Information

Application	IHC, IF, FC
Primary Accession	P01225
Other Accession	2488, 36975
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	SPM107
Calculated MW	14700

Additional Information

Gene ID	2488
Other Names	Follitropin subunit beta, Follicle-stimulating hormone beta subunit, FSH-B, FSH-beta, Follitropin beta chain, FSHB
Application Note	IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	FSH-beta (Follicle Stimulating Hormone-beta) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FSHB
Function	Together with the alpha chain CGA constitutes follitropin, the follicle-stimulating hormone, and provides its biological specificity to the hormone heterodimer. Binds FSHR, a G protein-coupled receptor, on target cells to activate downstream signaling pathways (PubMed:24692546, PubMed:2494176). Follitropin is involved in follicle development and spermatogenesis in reproductive organs (PubMed:407105, PubMed:8220432).
Cellular Location	Secreted. Note=Efficient secretion requires dimerization with CGA

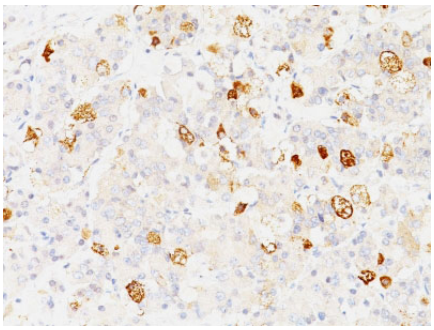
Background

This MAb reacts with a protein of 22kDa, identified as beta sub-unit of FSH. It does not cross react with the alpha sub-unit. Follicle stimulating hormone (FSH) is a hormone synthesized and secreted by gonadotrophs in the anterior pituitary gland. In the ovary, FSH stimulates the growth of immature Graafian follicles to maturation. As the follicle grows, it releases inhibin, which deactivates the FSH production. In men, FSH enhances the production of androgen-binding protein by the Sertoli cells of the testis and is critical for spermatogenesis. FSH and LH act synergistically in reproduction. FSH is a useful marker in the classification of pituitary tumors and the study of pituitary disease.

References

Schmidt M et al. Pathol Res Pract. 2001;197(10):663-9 | La Rosa S et al. Virchows Arch. 2000 Sep;437(3):264-9 | Zheng W et al. Gynecol Oncol. 2000 jan;76(1):80-8 |

Images



Formalin-fixed, paraffin-embedded human Pituitary stained with FSH-beta Monoclonal Antibody (SPM107).