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Polyclonal Anti- FSH beta Picoband™ Antibody

Catalog Number: PB9106

Description

Gene Name	follicle stimulating hormone, beta polypeptide
Recommended Protein Name	Follitropin subunit beta
Lot No.	0911412Da510695
Size	100μg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	**Reacts with:** human, mouse
Immunogen	E.coli-derived human FSH beta recombinant protein (Position: N19-E129). Human FSH beta shares 90% and 89% amino acid (aa) sequence identity with mouse and rat FSH beta, respectively.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.

Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.1-0.5μg/ml	Hu	-
Immunohistochemistry (Paraffin-embedded Section)	0.5-1μg/ml	Hu, Ms	By Heat

WB: The detection limit for FSH beta is approximately 0.25ng/lane under reducing conditions.

Tested Species: In-house tested species with positive results.

By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500μg/ml.

Storage: At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for a longer time.
Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(P).

Background

FSHB, also known as Follitropin subunit beta, is a protein that in humans is encoded by the FSHB gene, and this gene is mapped to 11p14.1. FSHB enables ovarian folliculogenesis to the antral follicle stage and is essential for Sertoli cell proliferation and maintenance of sperm quality in the testis. It can stimulate development of follicle and spermatogenesis in the reproductive organs. This gene encodes the beta subunit of follicle-stimulating hormone. In conjunction with luteinizing hormone, follicle-stimulating hormone induces egg and sperm production.

Reference

1. He, C. H., Gong, P., Hu, B., Stewart, D., Choi, M. E., Choi, A. M. K., Alam, J.Identification of activating transcription factor 4 (ATF4) as an Nrf2-interacting protein: implication for heme oxygenase-1 gene regulation. J. Biol. Chem. 276: 20858-20865, 2001.
2. Piantadosi CA, Withers CM, Bartz RR, MacGarvey NC, Fu P, Sweeney TE, Welty-Wolf KE, Suliman HB (May 2011). "Heme oxygenase-1 couples activation of mitochondrial biogenesis to anti-inflammatory cytokine expression". J. Biol. Chem.286 (18): 16374–85.