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Anti-FSHR Antibody

Catalog # AP51215

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P23945
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78238

Additional Information

Gene ID	2492
Other Names	LGR1; Follicle-stimulating hormone receptor; FSH-R; Follitropin receptor
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human FSHR. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

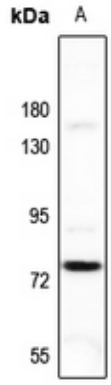
Name	FSHR
Synonyms	LGR1
Function	G protein-coupled receptor for follitropin, the follicle- stimulating hormone (PubMed:11847099, PubMed:24058690, PubMed:24692546). Mediates FSH signaling through cAMP/protein kinase A (PKA) and phosphatidylinositol-3 kinase (PI3K)/protein kinase B (AKT) pathways to regulate ovarian follicular development and steroidogenesis (PubMed:24058690). Has diverse extragonadal functions: signals via a GNAI2-coupled FSHR on osteoclasts and their precursors, resulting in activation of MEK/ERK, NF-kappa-B, and AKT pathways and thus increases osteoclastogenesis and bone resorption (By similarity). Regulates glucose-stimulated insulin secretion in pancreatic beta-cells in a bell curve manner, with moderate FSH levels promoting insulin secretion via Galphas/cAMP/PKA pathways while high FSH levels inhibit this effect through Galphai coupling (By similarity). In adipose tissue, inhibits thermogenesis by suppressing UCP1 expression and promotes lipogenesis via CREB/PPARgamma pathways (By similarity). Also affects hepatic cholesterol

	metabolism by increasing serum total and low-density- lipoprotein cholesterol (LDL-C) by inhibiting the expression of LDL receptor (LDLR) (PubMed:26583582).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Sertoli cells and ovarian granulosa cells.

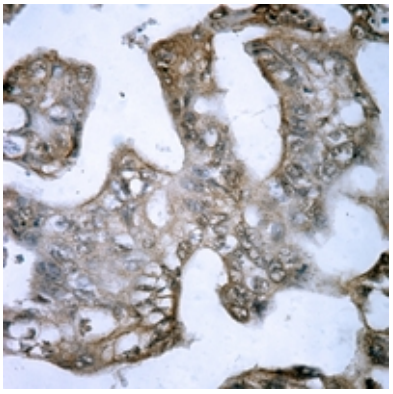
References

Minegish T.,et al.Biochem. Biophys. Res. Commun. 175:1125-1130(1991).
Tilly J.L.,et al.Endocrinology 131:799-806(1992).
Kelton C.A.,et al.Mol. Cell. Endocrinol. 89:141-151(1992).
Liu X.,et al.Submitted (MAY-2011) to the EMBL/GenBank/DDBJ databases.
Kopatz S.A.,et al.Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of FSHR expression in A2780 (A) whole cell lysates. (Predicted band size: 78 kD; Observed band size: 75 kD)



Immunohistochemical analysis of FSHR staining in human colorectal cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of FSHR staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.