10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FSHR Polyclonal Antibody

Catalog # AP69978

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P23945
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78238

Additional Information

Gene ID	2492
Other Names	FSHR; LGR1; Follicle-stimulating hormone receptor; FSH-R; Follitropin receptor
Dilution	WB~~IHC-p: 100-300.Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. IHC-P~~IHC-p: 100-300.Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

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).

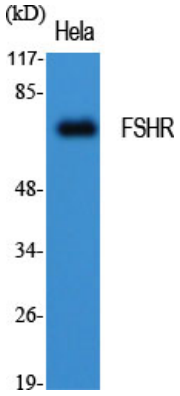
Cellular Location Cell membrane; Multi-pass membrane protein

Tissue Location Sertoli cells and ovarian granulosa cells.

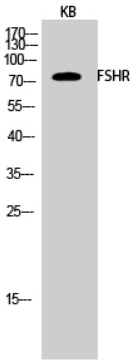
Background

G protein-coupled receptor for follitropin, the follicle-stimulating hormone (PubMed: 11847099, PubMed:24058690, PubMed:24692546). Through cAMP production activates the downstream PI3K-AKT and ERK1/ERK2 signaling pathways (PubMed:24058690).

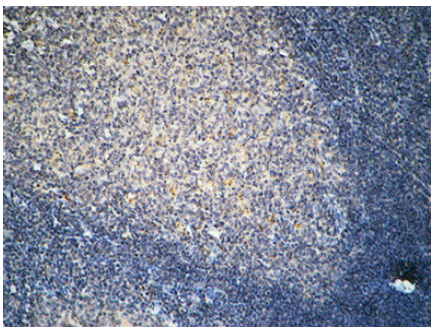
Images



Western Blot analysis of various cells using FSHR Polyclonal Antibody diluted at 1：1000

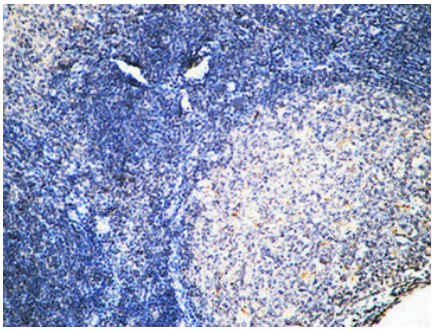


Western Blot analysis of KB cells using FSHR Polyclonal Antibody diluted at 1：1000

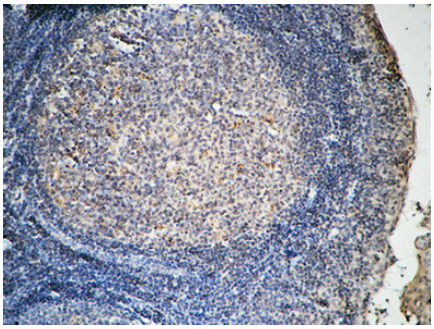


Immunohistochemical analysis of paraffin-embedded Human Amygdala. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

Immunohistochemical analysis of paraffin-embedded Human Amygdala. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary



antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human Amygdala. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

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