

For Research Use Only

LHCGR Polyclonal antibody

Catalog Number: 19968-1-AP

Featured Product

32 Publications



Basic Information

Catalog Number:

19968-1-AP

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000233

GeneID (NCBI):

3973

UNIPROT ID:

P22888

Full Name:

LHCGR

Calculated MW:

79 kDa

Observed MW:

90-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IF-P, IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, sheep

Positive Controls:

WB : unboiled mouse testis tissue, mouse ovary tissue

IP : mouse testis tissue,

IF-P : mouse ovary tissue,

Background Information

Lutropin-choriogonadotropic hormone receptor (LHCGR, also known as LHR or LSHR) belongs to the rhodopsin-like family of G protein-coupled receptors (GPCRs). It plays a crucial role in the regulation of gonadal functions by stimulating steroidogenesis in response to luteinizing hormone (LH) or hCG (PMID: 15866423). Mutations in the LHCGR gene result in familial male-limited precocious puberty, Leydig cell hypoplasia, and empty follicle syndrome (PMID: 30711030). LHCGR protein consists of 699 amino acids with a calculated molecular weight of 79 kDa. Due to massive glycosylation, the molecular mass of the mature LHCGR is higher (85-100 kDa) than the predicted molecular protein mass of 79 kDa (PMID: 23686864; 15866423; 29075189; 15969756).

Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Meng Wang	34697294	Cell Death Dis	WB
Yu Su	34039393	Nutr Metab (Lond)	WB, IHC
Lu Yuan	32523341	Int J Nanomedicine	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

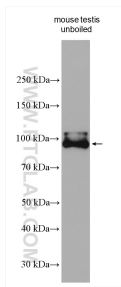
T: 4006900926

E: Proteintech-CN@ptglab.com

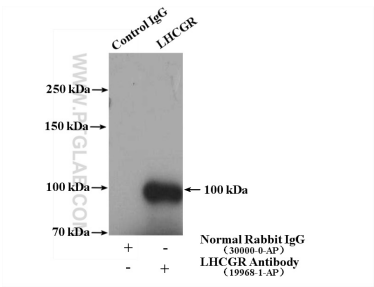
W: ptgcn.com

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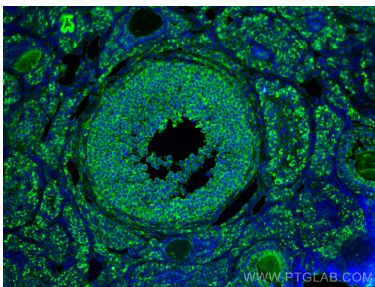
Selected Validation Data



Unboiled mouse testis tissue was subjected to SDS PAGE followed by western blot with 19968-1-AP (LHCGR antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-LHCGR (IP:19968-1-AP, 4ug; Detection:19968-1-AP 1:300) with mouse testis tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed mouse ovary tissue using LHCGR antibody (19968-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).