LHCGR Polyclonal ANTIBODY

Catalog Number: 19968-1-AP

Basic Information

Catalog Number: 19968-1-AP
Size: 29 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number:
GeneBank Accession Number: NM_000233
GenelD (NCBI): 3973
Full Name: Luteinizing hormone/choriogonadotropin receptor
Calculated MW: 79 kDa
Observed MW: 100 kDa

Recommended Dilutions:
WB: 1:500-1:1000
IP: 0.5-4.0 μg for IP and 1:150-1:600 for WB

Applications

Tested Applications: IP, WB, ELISA
Cited Applications: IHC, WB
Species Specificity: human, mouse, rat
Cited Species:

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:
WB: mouse testis tissue; mouse ovary tissue; multi-cells/tissue
IP: mouse testis tissue;

Background Information

Lutropin-choriogonadotropin hormone receptor (LHCGR, also known as LHR or LSHR) belongs to the rhodopsin-like family of G protein-coupled receptors (GPCRs) and plays a crucial role in the regulation of gonadal functions by stimulating steroidogenesis in response to luteinizing hormone (LH) or human chorionic gonadotropin (hCG) (PMID: 15866423). Mutations in 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

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<th>Author</th>
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<tr>
<td>Kaori Nozawa</td>
<td>24632129</td>
<td>Reprod Toxicol</td>
<td>WB, IHC</td>
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<tr>
<td>Oscar Gee Wan Wong</td>
<td>30031727</td>
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<tr>
<td>Yaping Liu</td>
<td>26771609</td>
<td>Int J Mol Sci</td>
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Storage

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

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or (312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Mouse testis tissue were subjected to SDS-PAGE followed by western blot with 19968-1-AP (LHCGR antibody) at dilution of 1:500 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.