



Anti-Luteinizing hormone/choriogonadotropin receptor (LHCGR), Rabbit-Polyclonal Antibody

Catalog No. GB-30071
Antigen species: Human
Host species: Rabbit

Quantity: 100 μ g
Reactivity: Human
Form: Peptide affinity purified antibody

Applications: ELISA

Target description

LHCGR encodes the receptor for both luteinizing hormone and choriogonadotropin, which is a seven transmembrane (7TM) receptor, comprising a large N terminal extracellular domain containing nine leucine-rich repeat motifs and a C terminal half homologue of the rhodopsin-like receptors. It is family 1 of G-protein coupled receptors, FSH/LSH/TSH superfamily, and its basic function is acting as luteinizing hormone/choriogonadotropin receptor (gonadotropin receptor), regulating the development and function of Leyding cells in males, playing a role in male secondary sexual character development. Mutations in this gonadotropin receptor result in disorders of male secondary sexual character development, such as familial male precocious puberty and male pseudohermaphroditism.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide located within the putative N-terminal extracellular domain of human luteinizing hormone /choriogonadotropin receptor (LHCGR).

Application

The antibody titer is 451K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1,000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti-guanine nucleotide binding protein (G protein), q polypeptide (GNAQ), pAb (GB-30070)
2. Anti-adrenergic, beta-1-, receptor (ADRB1) pAb (GB-30072)
3. Anti-adrenergic, beta-2-, receptor, surface (ADRB2) pAb (GB-30073)
4. Anti-angiotensin II receptor, type 1 (AGTR1) pAb (GB-30074).
5. Anti-angiotensin II receptor, type 2 (AGTR2) pAb (GB-30075).

Ab dilution	Pre-bleed	Purified-pAb
1:10,000	0.056	1.290
1:100,000	0.056	0.416
1:1,000,000	0.055	0.096
Titer		831 K

Concentration of test purified pAb is 1mg/ml

ELISA Protocol

Antigen is coated on EIA strips at 1 μ g per well. Add 200 μ l of blocking buffer and then wash wells with PBST buffer. Peptide affinity purified antibody GB-30071 is diluted in series as $10^4 \sim 10^6$ folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 650 nm. Amount of color is directly proportional to the amount of antibodies. Antibody titer is defined as >0.1 of ABS of antiserum minus pre-bleed serum.

Storage

It is supplied as peptide affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1 \times PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Lin, P.C., Li, X., Lei, Z.M. and Rao, Ch.V. Human cervix contains functional luteinizing hormone/human chorionic gonadotropin receptors. *J. Clin. Endocrinol. Metab.* 88 (7), 3409-3414 (2003)
2. Powell, B.L., Piersma, D., Kevenaar, M.E., van Staveren, I.L., Themmen, A.P., Iacopetta, B.J. and Berns, E.M. Luteinizing hormone signaling and breast cancer: polymorphisms and age of onset. *J. Clin. Endocrinol. Metab.* 88 (4), 1653-1657 (2003)

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