BOSTER BIOLOGICAL TECHNOLOGY
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Anti-hCG receptor/LHCGR Antibody Picoband®

Catalog Number: PA1552

About LHCGR

The luteinizing hormone/choriogonadotropin receptor is a member of a subfamily of G protein-coupled receptors (GPCR) characterized by the presence of a large N-terminal extracellular domain containing several leucine-rich repeats (LRR). This glycoprotein hormone receptor family has been named the LRR-containing GPCR (LGR) family. The LHCGR gene contains 11 exons and spans approximately 80 kb and it is mapped to chromosome 2p21. In the ovary, theca, stromal, late-stage (luteinizing) granulosa, and luteal cells contain LHCGR. In the testes, Leydig cells contain LHCRG.

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Overview

Product Name	Anti-hCG receptor/LHCGR Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-hCG receptor/LHCGR Antibody catalog # PA1552. Tested in IHC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P22888

Technical Details

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Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human hCG receptor, different from the relative rat sequence by two amino acids, mouse sequence by three amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Human Western blot, 0.1-0.5ug/ml, Human, Rat

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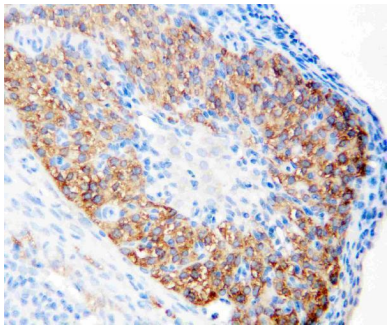
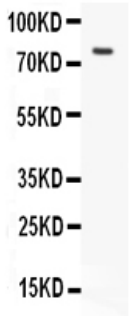
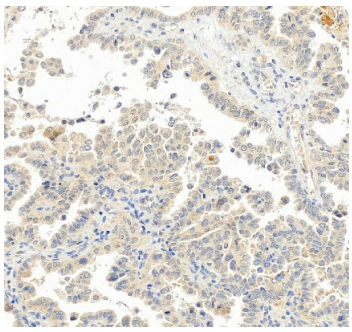
Anti-hCG receptor/LHCGR Antibody Picoband® (PA1552) Images



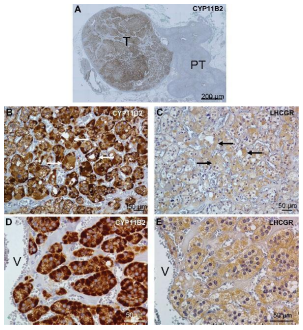
Anti-hCG receptor antibody, PA1552, IHC(P)IHC(P): Rat Ovary Tissue



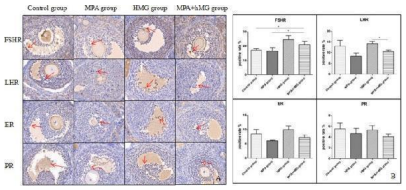
Anti-hCG receptor antibody, PA1552, Western blottingAll lanes: Anti hCG receptor (PA1552) at 0.5ug/mlWB: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 78KDObserved bind size: 78KD



IHC analysis of LHCGR using anti-LHCGR antibody (PA1552). LHCGR was detected in a paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-LHCGR Antibody (PA1552) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Distribution of aldosterone synthase (CYP11B2) and LHCGR in the patient’s adrenal. (A) , Distribution of CYP11B2 immunoreactivity in the tumor region (T) of the adrenal tissue. (B-E) , Distribution of CYP11B2 (B, D) and LHCGR (C, E) immunoreactivities in consecutive sections of the APA tissue at low (B, C) and high (D, E) magnifications. Similar distribution of CYP11B2 and LHCGR immunoreactivities were observed in some areas (arrows) in (B, C) . PT indicates peritumoral tissue; and V, vein.Index in PubMed under a CC BY license. PMID: 36926028



The effects of treatment on ovarian FSHR, LHR, ER, and PR expression level. (A) The FSHR, LHR, ER, and PR were detected by immunohistochemistry, red arrows represent the expression of receptors. (B) The positive rate of FSHR, LHR, ER, and PR in four groups. *Represents MPA + hMG

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group vs control group, MPA group or hMG group. *P < 0.05.
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1 Publications Citing This Product

1. PubMed ID: 26010950, Evaluation of Follicular Synchronization Caused by Estrogen Administration and Its Reproductive Outcome

Visit bosterbio.com/anti-hcg-receptor-antibody-pa1552-boster.html to see all 1 publications.

Anti-hCG receptor/LHCGR Antibody

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