Datasheet for ABIN3042675

anti-LHCGR antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	LHCGR
Binding Specificity:	AA 127-143, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Lutropin-choriogonadotropic hormone receptor(LHCGR) detection. Tested with WB, IHC-P in Human,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human hCG receptor(127-143aa YLSICNTGIRKFPDVTK), different from the relative rat sequence by two amino acids, mouse sequence by three amino acids.
Sequence:	YLSICNTGIR KFPDVTK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Lutropin-choriogonadotropic hormone receptor(LHCGR) detection. Tested with WB, IHC-P in Human,Rat. Gene Name: luteinizing hormone/choriogonadotropin receptor Protein Name: Lutropin-choriogonadotropic hormone receptor(LH/CG-R)

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	LHCGR
Alternative Name:	LHCGR (LHCGR Products)
Background:	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. Synonyms: Gonadotropin receptor antibody|Gpcr19-rs1 antibody|GTHR-II antibody|HHG antibody|LCGR antibody|LGR2 antibody|LH-R antibody|LH/CG R antibody|LH/CG-R antibody|LH/CGR antibody|LHCGR antibody|LHR antibody|LHRHR antibody|LSH R antibody|LSH-R antibody|LSHR_HUMAN antibody|Luteinizing hormone receptor antibody|Luteinizing hormone/choriogonadotropin receptor antibody|Lutropin choriogonadotropic hormone receptor antibody|Lutropin choriogonadotropic receptor antibody|Lutropin-choriogonadotropic hormone receptor antibody|ULG5 antibody
UniProt:	P22888
Pathways:	Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, cAMP Metabolic Process, Glycosaminoglycan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Autophagy, Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Predicted Species: Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human , Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.

Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Publications

Product cited in:	Yao, Zhao, Ou, Liang, Lin, Wang: "MicroRNA-214 Suppresses Osteogenic Differentiation of Human Periodontal Ligament Stem Cells by Targeting ATF4." in: **Stem cells international**, Vol. 2017, pp. 3028647, (2017) (PubMed). Wang, Wang, Dai, Chen, Yang, Dai, Ou, Wang, Lin: "Effects of Intermittent Administration of Parathyroid Hormone (1-34) on Bone Differentiation in Stromal Precursor Antigen-1 Positive Human Periodontal Ligament Stem Cells." in: **Stem cells international**, Vol. 2016, pp. 4027542, (2016) (PubMed). Li, Chen, Peng, Zhou, Fang: "Pulsed electromagnetic fields protect the balance between

Publications

adipogenesis and osteogenesis on steroid-induced osteonecrosis of femoral head at the pre-collapse stage in rats." in: **Bioelectromagnetics**, Vol. 35, Issue 3, pp. 170-80, (2014) (PubMed).

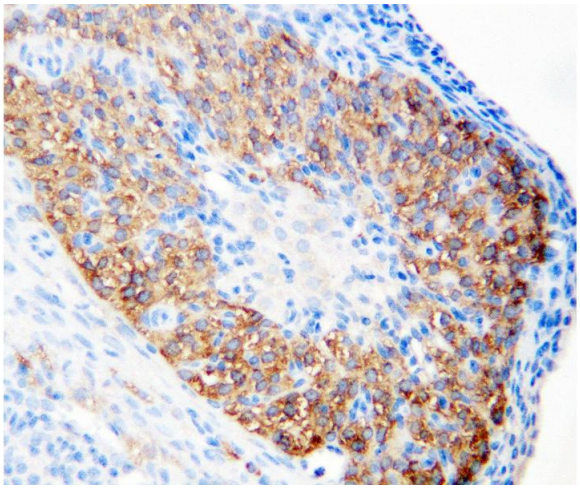
Song, Yu, Zhao, Wei, Liu, Hu, Zhao, Yang, Wu: "The time-dependent manner of sinusoidal electromagnetic fields on rat bone marrow mesenchymal stem cells proliferation, differentiation, and mineralization." in: **Cell biochemistry and biophysics**, Vol. 69, Issue 1, pp. 47-54, (2014) (PubMed).

Mu, Lv, Wang, Ma, Ma, Liu, Yu, Mu: "Mechanical stress stimulates the osteo/odontoblastic differentiation of human stem cells from apical papilla via erk 1/2 and JNK MAPK pathways." in: **BioMed research international**, Vol. 2014, pp. 494378, (2014) (PubMed).

Images

Western Blotting

Image 1. Anti-hCG receptor antibody, Western blotting All lanes: Anti hCG receptor at 0.5ug/ml WB: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 78KD Observed bind size: 78KD



Immunohistochemistry

Image 2. Anti-hCG receptor antibody, IHC(P) IHC(P): Rat Ovary Tissue