Datasheet for ABIN122503

anti-LHCGR antibody (C-Term)

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Overview

Quantity:	50 µg
Target:	LHCGR
Binding Specificity:	C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LHCGR antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Synthetic peptide - KLH conjugated. Epitope: C-terminal domain of human. Remarks: The immunizing peptide shows 78% identity (84% similarity) with Mouse and 94% identity (100% similarity) with Rat.
Cross-Reactivity (Details):	Species reactivity (expected):Rat. Species reactivity (tested):Human.
Purification:	Peptide Immunogen Affinity Chromatography.

Target Details

Target:	LHCGR
Alternative Name:	Luteinizing Hormone Receptor (LHCGR) (LHCGR Products)
Background:	LHCGR is a Glycoprotein Hormone Receptor for both luteinizing hormone and

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Target Details

	choriogonadotropin. It is expressed in the reproductive organs of both males and females. In males, the luteinizing hormone/choriogonadotropin receptor is involved in the development and function of Leydig cells. Mutations in this gonadotropin receptor can result in disorders of male secondary sexual character development, such as familial male precocious puperty and male pseudohermaphroditism, or lead to adenomas of the testis. In females, inactivating mutations of LHCGR cause hypergonadotrophic hypogonadism with primary amenorrhea or oligomenorrhea, cystic ovaries, and infertility. LHCGR has many alternatively spliced isoforms that affect where this gene is expressed. LHCGR has been reported in brain, cervix, epididymis, ovary, placenta, prostate, testis, umbilical cord, and uterus. ESTs have been isolated from fetal lung/testis/B-cell and testis libraries.Synonyms: LCGR, LGR2, LH/CG-R, LHCGR, LHR, LHRHR, LSH-R, Luteinizing hormone receptor, Lutropin-choriogonadotropic hormone receptor
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:	Immunohistochemistry with Formalin Fixed Paraffin Embedded Tissues (5 µg/mL). Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0, at 99-100 °C for 20 min. Remove from heat and let stand at room temperature in buffer for 20 min. Rinse in 1x TBS with Tween (TBST) for 1 min. at room temperature. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS containing 0.09 % Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C

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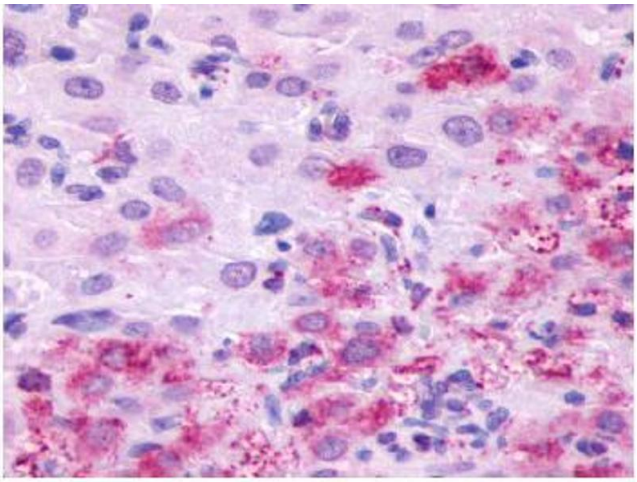
Handling

Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C to -70 °C for longer. Avoid repeated freezing and thawing. Shelf Life: one year from despatch.
Expiry Date:	12 months

Publications

Product cited in:	Satoh, Nakano, Shibata, Maki: "The penta-EF-hand domain of ALG-2 interacts with amino-terminal domains of both annexin VII and annexin XI in a Ca2+-dependent manner." in: **Biochimica et biophysica acta**, Vol. 1600, Issue 1-2, pp. 61-7, (2002) (PubMed).

Validation report #103702 for Western Blotting (WB)



Immunohistochemistry

Image 1. Immunohistochemical staining of human ovary sections (corpus luteum) using LHR antibody

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