GNRHR/LHCGR monoclonal antibody, clone A9E4

Catalog # MAB21022 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of GNRHR/LHCGR.
Immunogen	A synthetic peptide corresponding to amino acid 1-19 from the N-terminal of human GNRHR.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells in 0.1 mL) Immunofluorescence (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.
Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence
- Flow Cytometry

Gene Info — GNRHR

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Entrez GeneID	2798
Protein Accession#	P30968; P22888
Gene Name	GNRHR
Gene Alias	GNRHR1, GRHR, LHRHR, LRHR
Gene Description	gonadotropin-releasing hormone receptor
Omim ID	138850 228300
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the receptor for type 1 gonadotropin-releasing hormone. This receptor is a m ember of the seven-transmembrane, G-protein coupled receptor (GPCR) family. It is expressed o n the surface of pituitary gonadotrope cells as well as lymphocytes, breast, ovary, and prostate. F ollowing binding of gonadotropin-releasing hormone, the receptor associates with G-proteins that activate a phosphatidylinositol-calcium second messenger system. Activation of the receptor ulti mately causes the release of gonadotropic luteinizing hormone (LH) and follicle stimulating hormo ne (FSH). Defects in this gene are a cause of hypogonadotropic hypogonadism (HH). Alternative splicing results in multiple transcript variants encoding different isoforms. More than 18 transcripti on initiation sites in the 5' region and multiple polyA signals in the 3' region have been identified fo r this gene. [provided by RefSeq
Other Designations	gonadotropin-releasing hormone (type 1) receptor 1|leutinizing hormone releasing horomone rece ptor|leutinizing-releasing hormone receptor|luliberin receptor|type I GnRH receptor

Gene Info — LHCGR

Entrez GeneID	3973
Protein Accession#	P30968; P22888
Gene Name	LHCGR
Gene Alias	FLJ41504, LCGR, LGR2, LH/CG-R, LH/CGR, LHR, LHRHR, LSH-R
Gene Description	luteinizing hormone/choriogonadotropin receptor
Omim ID	152790 176410
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes the receptor for both luteinizing hormone and choriogonadotropin. This recept or belongs to the G-protein coupled receptor 1 family, and its activity is mediated by G proteins w hich activate adenylate cyclase. Mutations in this gene result in disorders of male secondary sexu al character development, including familial male precocious puberty, also known as testotoxicosi s, hypogonadotropic hypogonadism, Leydig cell adenoma with precocious puberty, and male pse udohermaphtoditism with Leydig cell hypoplasia. [provided by RefSeq
Other Designations	luteinising hormone-choriogonadotropin receptor|lutropin/choriogonadotropin receptor

Pathway

- Calcium signaling pathway
- GnRH signaling pathway
- Neuroactive ligand-receptor interaction
- Neuroactive ligand-receptor interaction

Disease

- Abortion
- Alzheimer disease
- Amenorrhea
- Asperger Syndrome
- Autistic Disorder
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms
- Cardiovascular Diseases
- Chromosome Disorders
- Cryptorchidism
- Diabetes Complications

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- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hyperandrogenism
- Hyperparathyroidism
- Hypogonadism
- Iatrogenic Disease
- Infertility
- Kallmann Syndrome
- Mental Disorders
- Mental Disorders
- Metabolic Syndrome X
- Neoplasm Invasiveness
- Neoplasms
- Neoplasms
- Obesity
- Obesity
- Osteoporosis
- Ovarian cancer
- Ovarian cancer
- Ovarian Failure
- Ovarian Failure
- Ovarian Hyperstimulation Syndrome
- Ovarian Neoplasms
- Ovarian Neoplasms
- Polycystic Ovary Syndrome
- Polycystic Ovary Syndrome

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- Prostate cancer
- Prostate cancer
- Prostatic Neoplasms
- Prostatic Neoplasms
- Puberty
- Puberty
- Social Perception
- Thrombophilia
- Thrombophilia
- Tobacco Use Disorder
- Tobacco Use Disorder

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