Product Name: GnRH-R Rabbit Polyclonal Antibody
Catalog #: APRab11567

Summary

Production Name	GnRH-R Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	GNRHR
Alternative Names	GNRHR; GRHR; Gonadotropin-releasing hormone receptor; GnRH receptor; GnRH-R
Gene ID	2798.0
SwissProt ID	P30968.The antiserum was produced against synthesized peptide derived from human GNRHR. AA range:41-90

Application

Dilution Ratio	IF 1:200-1:1000. ELISA: 1:5000.
Molecular Weight	37kD

Background

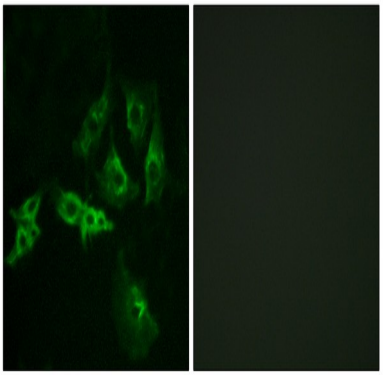
This gene encodes the receptor for type 1 gonadotropin-releasing hormone. This receptor is a member of the seven-

transmembrane, G-protein coupled receptor (GPCR) family. It is expressed on the surface of pituitary gonadotrope cells as well as lymphocytes, breast, ovary, and prostate. Following binding of gonadotropin-releasing hormone, the receptor associates with G-proteins that activate a phosphatidylinositol-calcium second messenger system. Activation of the receptor ultimately causes the release of gonadotropic luteinizing hormone (LH) and follicle stimulating hormone (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 transcription initiation sites in the 5' region and multiple polyA signals in the 3' region have been identified for this gendisease:Defects in GNRHR are a cause of fertile eunuch syndrome [MIM:228300]. Fertile eunuch syndrome is a mild phenotypic form of HH going with the presence of normal testicular size and some degree of spermatogenesis.,disease:Defects in GNRHR are a cause of idiopathic hypogonadotropic hypogonadism (IHH) [MIM:146110]. IHH is defined as a deficiency of the pituitary secretion of follicle-stimulating hormone and luteinizing hormone, which results in the impairment of pubertal maturation and of reproductive function.,function:Receptor for gonadotropin releasing hormone (GnRH) that mediate the action of GnRH to stimulate the secretion of the gonadotropic hormones (LH and FSH). This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. Isoform 2 may act a an inhibitor of GnRH-R signaling.,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Pituitary, ovary, testis, breast and prostate but not in liver and spleen.,

Research Area

Neuroactive ligand-receptor interaction;GnRH;

Image Data



Immunofluorescence analysis of A549 cells, using GNRHR Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.