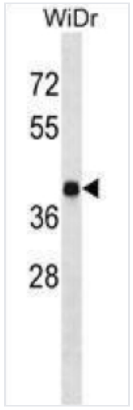
GNRHR Antibody – Rabbit Polyclonal

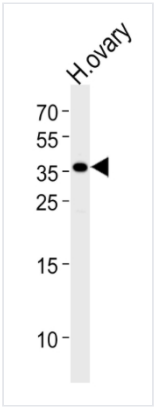
PRODUCT OVERVIEW

Product Name	GNRHR, Polyclonal Antibody
Full Product Name	GNRHR, NT (GNRHR, GRHR, Gonadotropin-releasing hormone receptor) (Biotin)
Product Gene Name	anti-GNRHR antibody
Product Synonym Names	GNRHR; GRHR; Gonadotropin-releasing hormone receptor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human GNRHR.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	27,727 Da
OMIM	138850
3D Structure	ModBase 3D Structure for P30968
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 49-77 in the N-terminal region of human GNRHR, UniProt Accession #P30968
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-GNRHR antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-GNRHR antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-GNRHR antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GNRHR antibody	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 gene.
Product References and Citations for anti-GNRHR antibody	1. Canzian, F., et al. Hum. Mol. Genet. 19(19):3873-3884(2010). 2. Armstrong, S.P., et al. J. Biol. Chem. 285(32):24360-24371(2010). 3. Lee, G., et al. Cancer Immunol. Immunother. 59(7):1011-1019(2010). 4. Re, M., et al. PLoS ONE 5 (7), E11489 (2010). 5. Armstrong, S.P., et al. J. Biol. Chem. 284(51):35746-35757(2009).

Other Notes	Small volumes of anti-GNRHR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GNRHR purchase	MBS6303141 is an antibody targeting GNRHR. Also known as GNRHR, NT (GNRHR, GRHR, Gonadotropin-releasing hormone receptor) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-GNRHR antibody
Western Blot analysis in WiDr cell line lysates (35ug/lane) usingMBS6004741. This demonstrates that MBS6004741 detected the GNRHR protein (arrow).



Western Blot (WB) of anti-GNRHR antibody
Western Blot analysis of lysate from human ovary tissue lysate (35ug), using MBS6004741 (1:1000). A goat anti-rabbit IgG H&L (HRP) at 1:5000 was used as the secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GNRHR. It may not necessarily be applicable to this product.

NCBI GI #	4504059
NCBI GeneID	2798
NCBI Accession #	NP_000397
UniProt Primary Accession #	P30968
UniProt Secondary Accession #	O75793; Q14D13; Q92644
UniProt Related Accession #	P30968
GenBank Nucleotide #	NM_000406.2
NCBI Official Full Name	gonadotropin-releasing hormone receptor isoform 1
NCBI Official Synonym Full Names	gonadotropin releasing hormone receptor
NCBI Official Symbol	GNRHR
NCBI Official Synonym Symbols	HH7; GRHR; LRHR; LHRHR; GNRHR1
UniProt Protein Name	Gonadotropin-releasing hormone receptor
Protein Family	Gonadotropin-releasing hormone receptor
UniProt Gene Name	GNRHR
UniProt Synonym Gene Names	GRHR; GnRH receptor; GnRH-R
UniProt Entry Name	GNRHR_HUMAN
NCBI Protein Information	gonadotropin-releasing hormone receptor

UniProt Comments for GNRHR	GNRHR: Receptor for gonadotropin releasing hormone (GnRH) that mediates the action of GnRH to stimulate the secretion of the gonadotropic hormones luteinizing hormone (LH) and follicle- stimulating hormone (FSH). This receptor mediates its action by association with G-proteins that activate a phosphatidylinositol- calcium second messenger system. Isoform 2 may act as an inhibitor of GnRH-R signaling. Defects in GNRHR are a cause of idiopathic hypogonadotropic hypogonadism (IHH). 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. Defects in GNRHR are a cause of fertile eunuch syndrome (FEUNS). Fertile eunuch syndrome is a mild phenotypic form of HH going with the presence of normal testicular size and some degree of spermatogenesis. Belongs to the G-protein coupled receptor 1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; GPCR, family 1; Receptor, GPCR; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 4q21.2 Cellular Component: membrane; integral to plasma membrane; plasma membrane Molecular Function: gonadotropin-releasing hormone receptor activity; peptide binding Biological Process: G-protein coupled receptor protein signaling pathway; multicellular organismal development Disease: Hypogonadotropic Hypogonadism 7 With Or Without Anosmia
Research Articles on GNRHR	**1.** GNRHR (and GNRH) are expressed in trophoblast cell populations and fallopian tube epithelium at tubal ectopic pregnancy sites.
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