

## Product datasheet for **TA328854**

### Gnrhr Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)NNASLEQDQNH, corresponding to amino acid residues 3-13 of rat GnRH Receptor. Extracellular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN <sub>3</sub> .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	gonadotropin releasing hormone receptor
Database Link:	<a href="#">NP_112300</a> <a href="#">Entrez Gene 81668 Rat P30969</a>



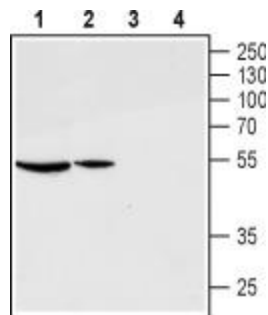
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**Background:**

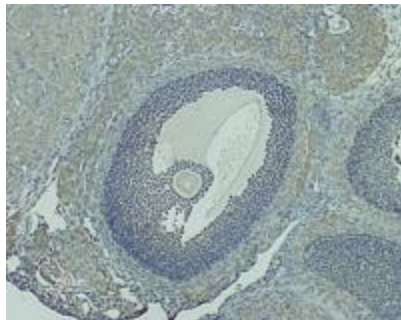
Gonadotropin-releasing hormone (GnRH) or Luteinizing hormone releasing hormone (LHRH) is a decapeptide synthesized and released from neurons in the hypothalamus and stimulates the synthesis and release of gonadotropin hormone (or luteinizing hormone) and follicle stimulating hormone from the pituitary gland. GnRH is expressed as various variants, and most vertebrates express more than one form of GnRH. GnRH and its variants bind and activate GnRH receptor (GnRHR), a member of the G-protein coupled receptor (GPCR) superfamily. Three forms of the receptor have been identified in vertebrates (types I, II and III). Like all members, GnRHR has seven transmembrane domains and an extracellular N-terminus and an intracellular C-terminal tail. The receptor also has a number of glycosylation sites in its extracellular loops. In addition, the C-terminal tail is unusually short and lacks consensus sites known to undergo post-translational modifications like phosphorylation. In consequence, this affects the receptor's desensitization and internalization. Expression of GnRHR is detected in the gonadotrope and various tissues like breast, gonads, prostate and uterus.

**Synonyms:**

GnRH-R; GNRHR1; GRHR; LHRHR; LRHR

**Product images:**

Western blot analysis of rat ovary (lanes 1 and 3) and rat pituitary (lanes 2 and 4) lysates: 1, 2. Anti-GnRH Receptor (extracellular) antibody, (1:200). 3, 4. Anti-GnRH Receptor (extracellular) antibody, preincubated with the control peptide antigen.



Expression of GnRH in rat ovary. Immunohistochemical staining of rat ovary paraffin-embedded sections using Anti-GnRH Receptor (extracellular) antibody. GnRHR labeling appears in the stroma surrounding the follicles. The stroma is a richly cellular connective tissue with scattered smooth muscle fibers. The Theca layer is stained as well. Hematoxylin is used as the counterstain.