

GnRH Receptor (LH/RH Receptor). Mouse Monoclonal Antibody F1G4 , Human

Gonadotropin Releasing Hormone Receptor; Lutenizing Hormone/Releasing Hormone Receptor

BACKGROUND

Gonadotropin Releasing Hormone (GnRH) is down-regulated by hCG and believed to be an autocrine factor that regulates the ovary. The Gonadotropin Releasing Hormone Receptor (GnRHR) is synthesized in the pituitary gland. Activin A has been shown to stimulate the synthesis of GnRHR, illustrating a possible mechanism for the modulation of gonadotropin responsiveness to GnRH.

ORDERING INFORMATION

CATALOG NUMBER
X1842M

SIZE
100 µg

FORM
Unconjugated

HOST/CLONE
Mouse Clone F1G4

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
IgG1

APPLICATIONS
Flow Cytometry, Western Blot, Immunofluorescence, Immunohistochemistry

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from mice immunized with synthetic peptide corresponding to N terminal extracellular domain amino acids 1–29 of Human GnRHR and mouse myeloma cells.

SPECIES REACTIVITY

Human

COMMENTS

Antibody can be used for Western blotting (1–2 µg/ml), immunofluorescence, flow cytometry, immunohistochemistry on formalin fixed, paraffin embedded tissues (1:100 dilution for 60 minutes after boiling in 1 mM EDTA for 10–20 min followed by cooling to RT for 20 min). Optimal concentration should be evaluated by serial dilutions.

STORAGE

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

For research use only. Not for use in human diagnostics or therapeutics.

POSITIVE CONTROL/TISSUE EXPRESSION

T47D cells. Pituitary or normal ovary.

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

REFERENCES

1. Karande AA et al. Establishment of immunological probes to study human gonadotropin-releasing hormone receptors. *Mol Cell Endocrinol* 114:51–6 (1995).
2. Wolfahrt, S., et al. “Endogenous regulation of the GnRH receptor by GnRH in the human placenta.” *Mol Hum Reprod*, 7, 89–95 (2001).
3. Rajeshwari, K., et al. “Molecular mimicry by antiidiotypic monoclonal antibody to gonadotropin releasing hormone.” *Immunol Invest*, 28, 103–114 (1999).
4. Cheng, C.K., et al. “Characterization of a new upstream GnRH receptor promoter in human ovarian granulosa-luteal cells.” *Mol Endocrinol*, 16, 1552–1564 (2002).

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