

Anti-GnRH-Receptor / LH-RH Receptor Monoclonal Antibody

Catalog Number: M01442

About GNRHR and LHCGR

Recognizes an epitope on the extracellular domain of gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR). Lutropin (also designated luteinizing hormone) plays a role in spermatogenesis and ovulation by stimulating the testes and ovaries to produce steroids. Gonadotropin (also designated choriogonadotropin) production in the placenta maintains estrogen and progesterone levels during the first trimester of pregnancy. Ovaries and testes abundantly express luteinizing hormone/choriogonadotropin receptor. GnRH receptor contains seven hydrophobic transmembrane domains connected by hydrophilic extracellular and intracellular loops characteristic of G-protein coupled receptors. GnRH stimulates the gonadotrophs of the anterior pituitary to secrete luteinizing hormone (LH) as well as follicle-stimulating hormone (FSH). GnRH influences the protective effect of pregnancy and Gonadotropin against breast cancer. The expression of GnRH on breast carcinoma correlates in part to the degree of tumor differentiation. GnRH-positive breast tumors occur more frequently in tumors with greater cell differentiation in premenopausal women. GnRH is present in luteal and granulosa cells as well as in ovarian cell membrane preparations.

Overview

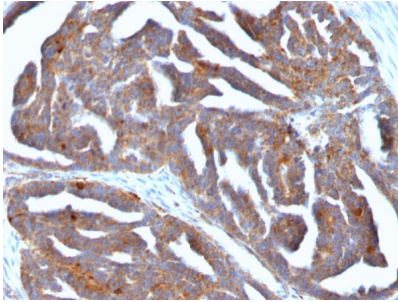
Product Name	Anti-GnRH-Receptor / LH-RH Receptor Monoclonal Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-GnRH-Receptor / LH-RH Receptor Monoclonal Antibody (Catalog # M01442). Tested in Flow Cytometry, IF, WB, IHC applications. This antibody reacts with Human, Rat.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal Clone: F1G4
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P30968 ; P22888

Technical Details

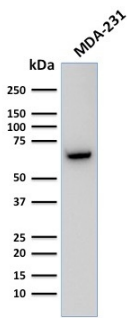
Immunogen	A synthetic peptide aa 1-29 (MANSASPEQNQHCSAINNSIPLMQGNLPY) from the N-terminal of human GnRH receptor.
Predicted Reactive Species	Pig, Rabbit
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa

Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Western Blot (1-2ug/ml)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 1mM EDTA, pH 8.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.</p>

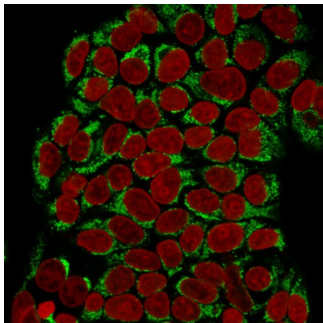
Anti-GnRH-Receptor / LH-RH Receptor Monoclonal Antibody (M01442) Images



Formalin-fixed, paraffin-embedded human Ovarian Tumor stained with Anti-GnRH-Receptor Mouse Monoclonal Antibody (F1G4).



Western Blot analysis of Human MDA-231 cell lysate using Anti-GnRH-Receptor Mouse Monoclonal Antibody (F1G4).



Immunofluorescence analysis of Human MCF-7 cells labeling GnRH-R with Anti-GnRH-Receptor Mouse Monoclonal Antibody (F1G4) followed by Goat anti-mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).

1 Publications Citing This Product

1. PubMed ID: 24223939, The Novel Fusion Proteins, GnRH-p53 and GnRHIII-p53, Expression and Their Anti-Tumor Effect

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