**BACKGROUND**

Lutropin (also designated luteinizing hormone) plays a role in spermatogenesis and ovulation by stimulating the testes and ovaries to produce steroids. Gonadotropin (also designated chorionic gonadotropin) production in the placenta maintains estrogen and progesterone levels during the first trimester of pregnancy. Ovaries and testes abundantly express luteinizing hormone/chorionic gonadotropin receptor (LHR) as a seven transmembrane, G protein-coupled receptor glycoprotein. LHR influences the protective effect of pregnancy and Gonadotropin against breast cancer. The expression of LHR on breast carcinoma correlates in part to the degree of tumor differentiation. LHR-positive breast tumors occur more frequently in tumors with greater cell differentiation in premenopausal women. The gene encoding human LHR maps to chromosome 2p21.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: LHCGR (human) mapping to 2p21; Lhcgr (mouse) mapping to 17 E5.

**SOURCE**

LHR (H-50) is a rabbit polyclonal antibody raised against amino acids 28-77 mapping within an extracellular domain of LHR of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

LHR (H-50) is recommended for detection of LHR of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100–500 µg of total protein (1 ml of cell lysate), immunofluorescence and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for LHR siRNA (h): sc-40105, LHR siRNA (m): sc-40106, LHR shRNA Plasmid (h): sc-40105-SH, LHR shRNA Plasmid (m): sc-40106-SH, LHR shRNA (h) Lentiviral Particles: sc-40105-V and LHR shRNA (m) Lentiviral Particles: sc-40106-V.

Molecular Weight of LHR: 85 kDa.

Positive Controls: mouse testis extract: sc-2405 or human kidney tissue.

**DATA**

LHR (H-50): sc-25828. Western blot analysis of LH R expression in mouse testis (A) and rat testis (B) tissue extracts.

LHR (H-50): sc-25828. Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse kidney tissue showing cytoplasmic staining of cells in glomeruli and tubuli (low and high magnification). Kindly provided by the Swedish Human Protein Atlas (HPA) program.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.