

LHR (H-50): sc-25828

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 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 (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 2p16.3.

CHROMOSOMAL LOCATION

Genetic locus: LHCGR (human) mapping to 2p16.3; Lhcgr (mouse) mapping to 17 E4.

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.

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 (starting dilution 1:50, dilution range 1:50-1:500), 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: rat testis extract: sc-2400, mouse testis extract: sc-2405 or human kidney extract: sc-363764.

STORAGE

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

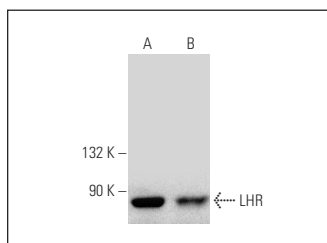
PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

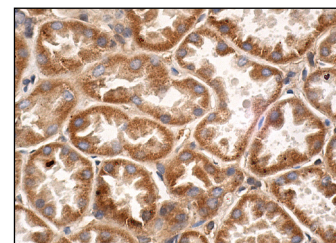
RESEARCH USE

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

DATA



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



LHR (H-50): sc-25828. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining of cells in tubules.

SELECT PRODUCT CITATIONS

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- Brouillet, S., et al. 2012. Revisiting the role of hCG: new regulation of the angiogenic factor EG-VEGF and its receptors. *Cell. Mol. Life Sci.* 69: 1537-1550.
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- Welsh, M., et al. 2012. Androgen receptor signalling in peritubular myoid cells is essential for normal differentiation and function of adult Leydig cells. *Int. J. Androl.* 35: 25-40.
- Li, X., et al. 2012. Immunoreactivities of androgen receptor, estrogen receptors, p450arom, p450c17 proteins in wild ground squirrels ovaries during the nonbreeding and breeding seasons. *J. Ovarian Res.* 5: 26.
- Adedara, I.A., et al. 2014. Aflatoxin B1 disrupts the androgen biosynthetic pathway in rat Leydig cells. *Food Chem. Toxicol.* 65: 252-259.



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Try **LHR (8G9A2): sc-293165**, our highly recommended monoclonal alternative to LHR (H-50).