BACKGROUND
Lutropin (also designated luteinizing hormone) plays a role in spermatogenesis and ovulation by stimulating the testis 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 testis 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 2p21.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: LHCR (human) mapping to 2p16.3.

SOURCE
LHR (8G9A2) is a mouse monoclonal antibody raised against luteinizing hormone/human chorionic gonadotropin (LH/hCG) receptor, extracellular domain of human origin.

PRODUCT
Each vial contains 200 µg IgG1 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 (8G9A2) is recommended for detection of LHR of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 µg per 1 x 10^6 cells) 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 shRNA Plasmid (h): sc-40105-SH and LHR shRNA (h) Lentiviral Particles: sc-40105-V.

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

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