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/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 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region 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.

Blocking peptide available for competition studies, sc-26341 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS
LHR (K-15) is recommended for detection of LHR of human and, to a lesser extent, mouse and rat 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), 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).

LHR (K-15) is also recommended for detection of LHR in additional species, including canine, bovine and porcine.

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.

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

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