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 chorionic gonadotropin) 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 2p16.3.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: LHCGR (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.

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 10⁶ 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.

PRODUCT

Each vial contains 200 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

LHR (8G9A2) is available conjugated to agarose (sc-517285 AC), 500 µg/0.25 ml agarose in 1 ml, for WB; HRP (sc-517285 HRP), 200 µg/ml, for WB, HIC(P) and ELISA; to either phycoerythrin (sc-517285 PE), fluorescein (sc-517285 FITC), Alexa Fluor® 488 (sc-517285 AF488), Alexa Fluor® 594 (sc-517285 AF594) or Alexa Fluor® 647 (sc-517285 AF647), 200 µg/ml, for IF, HIC(P) and FCM; and to either Alexa Fluor® 680 (sc-517285 AF680) or Alexa Fluor® 790 (sc-517285 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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PROTOCOLS

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