BACKGROUND

LCRG1 (laryngeal carcinoma-related protein 1), also known as GGNB2 (gametogenetin-binding protein 2), LZK1 or ZNF403, is a 697 amino acid protein that may be involved in spermatogenesis. LCRG1 interacts with gametogenetin, a protein primarily expressed in testis and ovary. Localized in the cytoplasm, LCRG1 associates with vesicular structures. LCRG1 is expressed in brain, placenta, lung, liver and kidney, with highest levels found in heart, pancreas and skeletal muscle. LCRG1 is strongly down-regulated in 40% of primary laryngeal carcinoma and in six of various cancer cell lines. Phosphorylated on Serine 360, LCRG1 exists as three isoforms produced by alternative splicing events.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: GGNBP2 (human) mapping to 17q12; Ggnbp2 (mouse) mapping to 11 C.

SOURCE

LCRG1 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LCRG1 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-164840 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LCRG1 (N-16) is recommended for detection of LCRG1 of human origin and Ggnbp2 of mouse 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). LCRG1 (N-16) is also recommended for detection of LCRG1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for LCRG1 siRNA (h): sc-93904, Ggnbp2 siRNA (m): sc-145389, LCRG1 shRNA Plasmid (h): sc-93904-SH, Ggnbp2 shRNA Plasmid (m): sc-145389-SH, LCRG1 shRNA (h) Lentiviral Particles: sc-93904-V and Ggnbp2 shRNA (m) Lentiviral Particles: sc-145389-V.

Molecular Weight of LCRG1 isoforms 1/2/3: 79/33/52 kDa.