

LANCL2 (D-19): sc-79563

BACKGROUND

LANCL2 (LanC-like protein 2), also known as TASP (testis-specific adriamycin sensitivity protein) or GPR69B, is a 450 amino acid member of the LanC-like protein family. Localized to the nucleus, cytoplasm and cell membrane, LANCL2 is expressed highly in brain and testis. The gene that encodes LANCL2 maps to human chromosome 7 and is considered a bystander gene that is coamplified and overexpressed with EGFR in 20% of glioblastomas. Human chromosome 7 is about 158 million bases long, encodes over 1,000 genes and makes up about 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LANCL2 (human) mapping to 7p11.2; Lancl2 (mouse) mapping to 6 B3.

SOURCE

LANCL2 (D-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LANCL2 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79563 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LANCL2 (D-19) is recommended for detection of LANCL2 of mouse, rat and 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

LANCL2 (D-19) is also recommended for detection of LANCL2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for LANCL2 siRNA (h): sc-75407, LANCL2 siRNA (m): sc-75408, LANCL2 shRNA Plasmid (h): sc-75407-SH, LANCL2 shRNA Plasmid (m): sc-75408-SH, LANCL2 shRNA (h) Lentiviral Particles: sc-75407-V and LANCL2 shRNA (m) Lentiviral Particles: sc-75408-V.

Molecular Weight of LANCL2: 51 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

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.