

LYPD2 (P-14): sc-87285

BACKGROUND

LYPD2 (Ly6/PLAUR domain-containing protein 2) is a 125 amino acid membrane protein that contains one UPAR/Ly6 domain. LYPD2 is most likely bound to the membrane by its C-terminus through a glycosylphosphatidylinositol anchor. The gene encoding LYPD2 maps to chromosome 8, which is made up of nearly 146 million bases and encodes about 800 genes. Translocation of portions of chromosome 8 with amplifications of the c-Myc gene are found in some leukemias and lymphomas, and are typically associated with a poor prognosis. Portions of chromosome 8 have been linked to schizophrenia and bipolar disorder. Chromosome 8 is also associated with Pfeiffer syndrome, congenital hypothyroidism and Waardenburg syndrome.

REFERENCES

1. Wildenauer, D.B. and Schwab, S.G. 1999. Chromosomes 8 and 10 workshop. *Am. J. Med. Genet.* 88: 239-243.
2. Kashino, G., et al. 2001. Preferential expression of an intact WRN gene in Werner syndrome cell lines in which a normal chromosome 8 has been introduced. *Biochem. Biophys. Res. Commun.* 289: 111-115.
3. Selicorni, A., et al. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. *Hum. Genet.* 110: 64-67.
4. McQueen, M.B., et al. 2005. Com-bined analysis from eleven linkage studies of bipolar disorder provides strong evidence of susceptibility loci on chromosomes 6q and 8q. *Am. J. Hum. Genet.* 77: 582-595.
5. Nusbaum, C., et al. 2006. DNA sequence and analysis of human chromosome 8. *Nature* 439: 331-335.
6. Agrelo, R., et al. 2006. Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer. *Proc. Natl. Acad. Sci. USA* 103: 8822-8827.
7. Guttormsen, J., et al. 2008. Disruption of epidermal specific gene expression and delayed skin development in AP-2 γ mutant mice. *Dev. Biol.* 317: 187-195.
8. Ni, J., et al. 2009. Cloning and characterization of a human LYPD7, a new member of the Ly6 superfamily. *Mol. Biol. Rep.* 36: 697-703.

CHROMOSOMAL LOCATION

Genetic locus: LYPD2 (human) mapping to 8q24.3; Lypd2 (mouse) mapping to 15 D3.

SOURCE

LYPD2 (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LYPD2 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-87285 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LYPD2 (P-14) is recommended for detection of LYPD2 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).

LYPD2 (P-14) is also recommended for detection of LYPD2 in additional species, including equine, canine and avian.

Suitable for use as control antibody for LYPD2 siRNA (h): sc-77646, LYPD2 siRNA (m): sc-149175, LYPD2 shRNA Plasmid (h): sc-77646-SH, LYPD2 shRNA Plasmid (m): sc-149175-SH, LYPD2 shRNA (h) Lentiviral Particles: sc-77646-V and LYPD2 shRNA (m) Lentiviral Particles: sc-149175-V.

Molecular Weight of LYPD2: 13 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.