

LYPD3 (S-16): sc-243375

BACKGROUND

LYPD3 (LY6/PLAUR domain containing 3), also known as MIG-C4 (matrigel-induced gene C4 protein) or GPI-anchored metastasis-associated protein C4.4A homolog, is a 346 amino acid cell membrane protein that supports cell migration. Implicated in tumor progression and urothelial cell-matrix interactions, LYPD3 is expressed in skin, urothelium and placenta, with weak levels found in peripheral blood mononuclear cells and esophagus. Upregulated in migrating keratinocytes, LYPD3 undergoes post-translational N- and O-glycosylation, and contains two UPAR/Ly6 domains. The gene encoding LYPD3 maps to human chromosome 19q13.31. Chromosome 19 consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG families, and Fc receptors (FcRs).

REFERENCES

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7. Hansen, L.V., et al. 2004. Structural analysis and tissue localization of human C4.4A: a protein homologue of the urokinase receptor. *Biochem. J.* 380: 845-857.
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CHROMOSOMAL LOCATION

Genetic locus: LYPD3 (human) mapping to 19q13.31; Lypd3 (mouse) mapping to 7 A3.

SOURCE

LYPD3 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LYPD3 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-243375 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LYPD3 (S-16) is recommended for detection of LYPD3 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).

LYPD3 (S-16) is also recommended for detection of LYPD3 in additional species, including equine and canine.

Suitable for use as control antibody for LYPD3 siRNA (h): sc-97468, LYPD3 siRNA (m): sc-149176, LYPD3 shRNA Plasmid (h): sc-97468-SH, LYPD3 shRNA Plasmid (m): sc-149176-SH, LYPD3 shRNA (h) Lentiviral Particles: sc-97468-V and LYPD3 shRNA (m) Lentiviral Particles: sc-149176-V.

Molecular Weight of LYPD3: 36 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.