

PLBD1 (D-17): sc-241625

BACKGROUND

PLBD1 (phospholipase B domain containing 1), also known as putative phospholipase B-like 1, LAMA-like protein 1 or lamina ancestor homolog 1, is a 553 amino acid protein belonging to the phospholipase B-like family. The gene that encodes PLBD1 maps to human chromosome 12, which encodes over 1,100 genes, contains 132 million bases and makes up approximately 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12, including hypochondrogenesis, achondrogenesis and Kniest dysplasia. Noonan syndrome, characterized by heart and facial developmental defects, is caused by a mutant form of the PTPN11 gene product, SH-PTP2. Chromosome 12 is also linked to a homeobox gene cluster, which encodes crucial transcription factors for morphogenesis, and the natural killer complex gene cluster that encodes C-type lectin proteins, which mediate the NK cell response to MHC I interaction.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Plbd1 (mouse) mapping to 6 G1.

SOURCE

PLBD1 (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of PLBD1 of mouse 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-241625 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PLBD1 (D-17) is recommended for detection of PLBD1 of mouse and rat 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).

PLBD1 (D-17) is also recommended for detection of PLBD1 in additional species, including bovine.

Suitable for use as control antibody for PLBD1 siRNA (m): sc-108134, PLBD1 shRNA Plasmid (m): sc-108134-SH and PLBD1 shRNA (m) Lentiviral Particles: sc-108134-V.

Molecular Weight of PLBD1: 63 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.