

Human Layilin/LAYN antibody

Catalog Number: ATGA0295

PRODUCT INFORMATION

Catalog number

ATGA0295

Clone No.

AT18E10

Product type

Monoclonal Antibody

UnitProt No.

Q6UX15

NCBI Accession No.

NP_001245319

Alternative Names

Layilin isoform 1, Layilin

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human LAYN (22-235aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Layilin is a widely expressed integral membrane hyaluronan receptor and a transmembrane protein with homology to C-type lectins. This protein interacts with the ERM protein family of cytoskeletal membrane linker molecule members, including talin, ezrin, moesin, and radixin. The carboxy-terminal domain of layilin is capable of binding to the amino-terminal domain of radixin. An interdomain interaction between the amino- and the carboxy-terminal domains of radixin inhibits its ability to bind to layilin. Layilin plays an important role in cell adhesion and motility. It is important for the maintenance of the cortical structure in the cell because it mediates signals from the extracellular matrix to the cytoskeleton. In spreading cells, Layilin acts as a membrane-binding site for talin in the peripheral ruffles, and it may play a role in the migration of cells to a wound site.

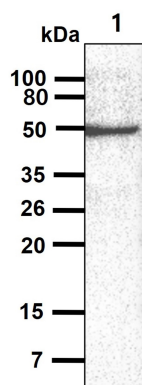
General References

Bono P., et al. (2005) Exp Cell Res 1308(1): 177-87.

Mark L., et al. (1998) The Journal of Cell Biology 143(2): 429.

DATA

Western blot analysis (WB)



The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human LAYN antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: A549 cell lysate