

Mouse Anti-Human Layilin Monoclonal Antibody

Cat. No. CAB11575MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Layilin
Species	Human
Source	Mouse
Antigen Description	Layilin, a recently characterized transmembrane protein with homology to C-type lectins, is present in numerous cell lines and tissue extracts. As one of the adaptor proteins, talin mediates the interactions between the actin filaments and the cell membrane by binding to integral membrane proteins and to the cytoskeleton. Layilin is a newly identified membrane-binding site for talin in peripheral ruffles of spreading cells, and its adjacent LH2-LH3 tandem arrays in the cytoplasmic domain provide docking sites for talin. Layilin binds specifically to hyaluronan (HA) through its extracellular domain, a ubiquitous extracellular matrix component in most animal tissues and body fluids, but not to other tested glycosaminoglycans. In addition, merlin and radixin have been identified as different intracellular binding partners of Layilin. Accordingly, it has been suggested that Layilin plays roles in a variety of cellular processes, including cell shape, adhesion, motility, and homeostasis, as well as signal transduction.
Specificity	HumanLayilin. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant human Layilin protein

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Isotype	MouseIgG1
Cross Reactivity	1G1G4B12
Clone	2H2H5C13
Applications	WB
Dilution	Western blot: This antibody can be used at 1-2ug/mL with the appropriate secondary reagents to detect layilin in WB. Using a DAB detection system, the detection limit for Layilin is approximately 20ng/lane under reducing conditions. Use of this antibody under non-reducing conditions is not recommended.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant human Layilin (rhLayilin; aa 1 - 220; NP_849156.1). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for 1 month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name LAYN layilin [Homo sapiens]

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Official Symbol	LAYN
Synonyms	LAYN; layilin; FLJ30977; FLJ31092;
Gene ID	143903
mRNA Refseq	NM_178834
Protein Refseq	NP_849156
UniProt ID	Q6UX15
Chromosome Location	11q23.1
Function	binding; hyaluronic acid binding; sugar binding;

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