

Anti-LAYN Antibody-Biotin (7X552)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Biotin
Clone:	7X552
Purification:	Protein A

Applications

Application:	ELISA
Recommended	ELISA: 0.1-1 µg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Human cell-derived rhLayilin extracellular domain (TMPY-00872)
Antigen Species:	Human
Synonyms:	layilin

Research Background

Layilin recently characterized as a 55 kDa 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 the cytoskeleton. Layilin is a newly identified membrane-binding site for talin in peripheral ruffles of spreading cells, a ten-amino acid motif in the Layilin cytoplasmic domain is sufficient for talin binding, and its adjacent LH2-LH3 tandem arrays in the cytoplasmic domain provide docking sites for talin. Furthermore, talin binds Layilin, PIPK1gamma, and integrins in similar although subtly different ways. 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. The research suggests that Layilin may mediate signals from the extracellular matrix to the cell cytoskeleton via interaction with different intracellular binding partners and thereby be involved in the modulation of cortical structures in the cell. All the above actions reveal an interesting parallel between Layilin and the known HA receptor CD44. Also, 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. Besides, Layilin might play an important role in the process of invasion and lymphatic metastasis of lung carcinoma.

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