

Human Layilin Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 328002 Catalog Number: FAB26371U

100 un

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Layilin in ELISAs.	
Source	Monoclonal Mouse IgG _{2B} Clone # 328002	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Layilin Ala22-Glu220 Accession # NP_849156	
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm	
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS				
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.			
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.			

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

BACKGROUND

Layilin (named after the L-A-Y-I-L-I six amino acid motif in the molecule's transmembrane segment) is a 55 kDa member of the animal C-type lectin family. The human Layilin cDNA encodes a 374 amino acid (aa) type I transmembrane protein that, based on the orthologous molecule in hamster, contains a 19 aa signal sequence, a 201 aa extracellular region, a 31 aa transmembrane segment, and a 123 aa cytoplasmic tail (1, 2). The extracellular domain has a 130 aa carbohydrate recognition domain that contains only one potential Ca⁺⁺-binding site. The intracellular region contains three types of LH (layilin homology) repeats. There are three 16-18 aa LH1 repeats, 3 five aa (E-G-S-F/W-V) LH2 repeats, and 2 four aa (N-D/E-I-Y) LH3 repeats. Adjacent LH2-LH3 tandem arrays provide docking sites for talin, a cytoskeleton-membrane adaptor protein (3). The human layilin extracellular region is 85% aa identical to the hamster layilin extracellular region, and 82% aa identical to the extracellular region of a similar molecule identified in mouse. Layilin is known to be a receptor for hyaluronan (HA), a negatively charged linear high molecular weight polysaccharide composed of alternating units of D-glucuronic acid and N-acetyl-D-glucosamine (1, 4, 5). HA is found in the extracellular matrix of most animal tissues and in body fluids. Thus, it may be that layilin modulates cell behavior and functions during tissue remodeling, development, homeostasis, and disease. Layilin binds specifically to HA but not to other glycosaminoglycans (4).

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Rev. 9/20/2025 Page 1 of 1

Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956

China | info.cn@bio-techne.com TEL: 400.821.3475