Layilin/LAYN Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P74778
Synonyms:	Layilin; LAYN; LYAN
Species:	Rat
Source:	HEK293
Accession:	D3Z895 (M1-E224)
Gene ID:	500996
Molecular Weight:	Approximately 55 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Layilin (LAYN) is a type 1 transmembrane protein with a C-type lectin motif that functions as a hyaluronic acid receptor. Layilin interacts with cytoskeletal proteins such as talin, merlin, and radixin, and also with the leading edge of migrating cells and the surfaces of immune cells. Layilin mainly localizes to mitochondria or in their close proximity. It plays a role in the fission in mitochondrial dynamics through the activation of CDK1 and DRP1. Layilin may lead to the promotion of the cell cycle through the activation of CDK1 in tumor cells, promotes mitochondrial fission through activation of DRP1 and accordingly enhance migratory and invasive abilities. Layilin also up-regulates the expression of SNAI1 via down-regulation of MTA3, thereby enhanceing the invasive ability of malignant glioma cells. On a molecular level, layilin colocalized with integrin αLβ2 (LFA-1) on T cells, and cross-linking layilin promoted the activated state of this integrin, which is to promote antitumor immunity[1][2].

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