abcam

Product datasheet

Leucine Aminopeptidase (LAP) Activity Assay Kit (Fluorometric) ab234627

3 Images

Overview

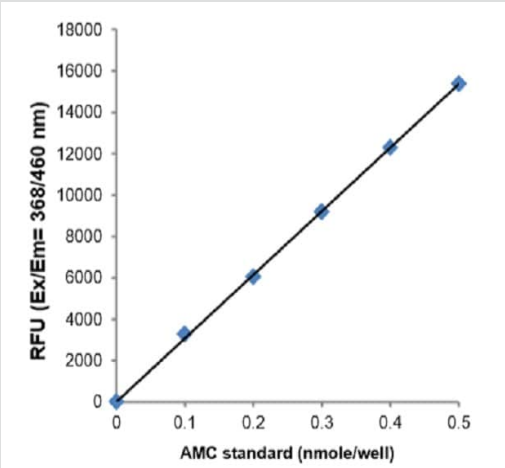
Product name	Leucine Aminopeptidase (LAP) Activity Assay Kit (Fluorometric)
Detection method	Fluorescent
Sample type	Adherent cells, Suspension cells, Tissue Homogenate
Assay type	Enzyme activity
Sensitivity	0.1 mU/well
Product overview	Leucine Aminopeptidase (LAP) Activity Assay Kit (Fluorometric) (ab234627) provides a quick, sensitive and easy way for measuring total LAP activity in various samples such as animal tissues or cell cultures. In this assay, LAPs hydrolyze leucine from the fluorescent probe and the amount of fluorescent probe detected at Ex/Em 368/460 nm is used to determine the total activity of the LAP enzymes. The assay is simple to perform, high-throughput adaptable and can detect less than 0.1 mU of LAP activity.
Notes	This product is manufactured by BioVision, an Abcam company and was previously called K534 Leucine Aminopeptidase (LAP) Activity Assay Kit (Fluorometric). K534-100 is the same size as the 100 test size of ab234627. Leucine aminopeptidases (EC 3.4.11.1) (LAPs) are a diverse set of exopeptidases that catalyze the hydrolysis of leucine residues from the amino-termini of proteins or peptides. LAPs are ubiquitous enzymes present among animals, plants and prokaryotes. Previously, they were thought to typically play important roles in cell maintenance, growth and development. However, research in the recent years has identified multiple secondary functions for these enzymes in animals and microbes including transcriptional regulation and vesicle transport. Studies have implicated LAP enzymes in tumor cell proliferation, invasion and angiogenesis. Placental LAP is used as a biomarker in ovarian epithelial cancer while adipocyte-derived LAP is used as a marker of endometrial cancer cell proliferation and differentiation.
Platform	Microplate reader

Properties

Storage instructions	Store at -20°C. Please refer to protocols.

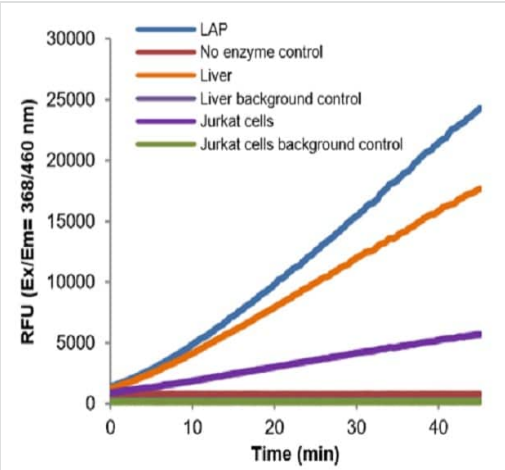
Components	100 tests
AMC Standard	1 x 100µl
LAP Assay Buffer	1 x 25ml
LAP Positive Control	1 vial
LAP Substrate	1 vial

Images



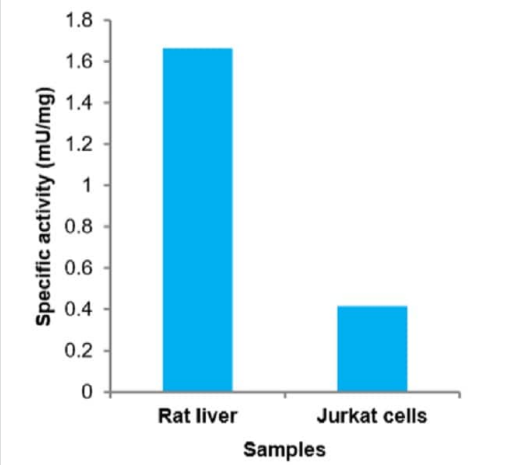
Example data

AMC standard curve.



Example Data

Reaction kinetics of leucine aminopeptidase activity in rat liver (6.6 µg protein) and Jurkat (human T cell leukemia cell line from peripheral blood) cells (8 µg protein) using appropriate background controls.



Example Data

Leucine aminopeptidase specific activity was calculated in rat liver and Jurkat (Human T cell leukemia cell line from peripheral blood) cell lysates.

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