Mouse Lysosomal-associated transmembrane protein 4B (LAPTM4B) ELISA Kit

Catalog No: #EK11535

Package Size: #EK11535-1 48T #EK11535-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Lysosomal-associated transmembrane protein 4B (LAPTM4B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	LAPTM4beta; LC27; lysosomal associated protein transmembrane 4 beta|lysosomal associated transmembrane protein 4 beta
Accession No.	Q91XQ6
Uniprot	Q91XQ6
GeneID	114128;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.054 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LAPTM4B in samples. An antibody specific for LAPTM4B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLAPTM4B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LAPTM4B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LAPTM4B bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:LAPTM4B was overexpressed in hepatocellular carcinoma compared with normal liver tissue, and its expression inversely correlated with the degree of tumor cell differentiation. Overexpression of full-length LAPTM4B increased the efficiency of colony formation in a hepatoma cell line.

The deduced 317-amino acid protein has a calculated molecular mass of 35 kD. It has 4 transmembrane domains, an SH3 domain-binding PxxP motif at both its N and C termini, a conserved lysosome targeting signal at its C terminus, 1 potential N-glycosylation site, 8 putative phosphorylation sites, and 4 N-myristoylation sites. LAPTM4B shares 92% amino acid identity with its mouse homolog and 46% identity with human LAPTM4A.

Note: This product is for in vitro research use only