Mouse Leukotriene A-4 hydrolase (LTA4H) ELISA Kit

Catalog No: #EK10029

Package Size: #EK10029-1 48T #EK10029-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Mouse Leukotriene A-4 hydrolase (LTA4H) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Accession No.	P24527
Uniprot	P24527
GeneID	16993;
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:0.069 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 LTA4H in samples. An antibody specific for LTA4H has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLTA4H present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LTA4H 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 LTA4H bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Minami et al. (1987) reported the full-length cDNA and complete primary structure of human LTA4 hydrolase. This was the first report of the molecular cloning of an enzyme involved in the biosynthesis of eicosanoids. Funk et al. (1987) isolated a cDNA clone corresponding to leukotriene A4 hydrolase from a human lung lambda-gt11 expression library by immunoscreening with a polyclonal antiserum. Several additional clones from human lung and placenta cDNA lambda-gt11 libraries were obtained by plaque hybridization with the (32)P-labeled lung cDNA clone. One of the clones had an insert of 1,910 basepairs that contained a complete protein-coding region. From the deduced primary structure, leukotriene A4 hydrolase is a 610-amino acid protein with a calculated molecular weight of 69,140.

Note: This product is for in vitro research use only