

Human Leukotriene A4 Hydrolase ELISA Kit | LTA4H elisa kit

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CATALOG #
AAA101807

REACTIVITY
Human

PRODUCT SYNONYMS

Leukotriene A4 Hydrolase; Human Leukotriene A4 Hydrolase ELISA Kit; LTA4H/EC 3.3.2.6/Leukotriene A (4) hydrolase/leukotriene A4 hydrolase/leukotriene A-4 hydrolase/LTA4/LTA-4 hydrolase; LTA4H elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of LTA4H. No significant cross-reactivity or interference between LTA4H and analogues was observed.
Sequence Length	611
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LTA4H were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level LTA4H were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a LTA4H ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.107	0.151	0.200	0.300	0.440	0.819	1.323	2.281

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LTA4H elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-LTA4H antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-LTA4H antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the LTA4H amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of LTA4H can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	976396
NCBI GeneID	4048
Molecular Weight	66,852 Da
NCBI Official Full Name	leukotriene A4 hydrolase
NCBI Official Synonym Full Names	leukotriene A4 hydrolase
NCBI Official Symbol	LTA4H
NCBI Protein Information	leukotriene A-4 hydrolase
UniProt Protein Name	Leukotriene A-4 hydrolase
UniProt Gene Name	LTA4H
UniProt Synonym Gene Names	LTA4; LTA-4 hydrolase
UniProt Entry Name	LKHA4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/lt4h-human-elisa-kits/leukotriene-a4-hydrolase/101807>