

Rabbit anti-Human Leukotriene A4 Hydrolase Polyclonal Antibody | anti-LTA4H antibody

Anti-Leukotriene A4 Hydrolase Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254783	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

Leukotriene A4 Hydrolase; Polyclonal Antibody; Anti-Leukotriene A4 Hydrolase Antibody; Rabbit Polyclonal; Leukotriene A4 Hydrolase/LTA4H Antibody; Rabbit PAb; Antigen Affinity Purified; leukotriene A4 hydrolase; Anti-LAT4 Antibody; anti-LTA4H antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Leukotriene A4 Hydrolase/LTA4H
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-LTA4H antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Leukotriene A4 Hydrolase/LTA4H protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Leukotriene A4 Hydrolase/LTA4H (rh Leukotriene A4 Hydrolase/LTA4H). Leukotriene A4 Hydrolase/LTA4H specific IgG was purified by Human Leukotriene A4 Hydrolase/LTA4H affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-LTA4H rabbit polyclonal antibody at 1:500 dilution Lane A: A549 Whole Cell Lysate Lysates/proteins at 60 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 70 kDa Observed band size: 63 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)

LTA4H was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate Lane B: 0.5 mg 293T Whole Cell Lysate 2 uL anti-LTA4H rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-LTA4H rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 69 kDa Observed band size: 69 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-LTA4H antibody	Leukotriene A-4 hydrolase, also known as LTA-4 hydrolase, Leukotriene A (4) hydrolase, LTA4H, and LTA4, is a cytoplasm protein that belongs to the peptidase M1 family. LTA4H hydrolyzes an epoxide moiety of leukotriene A4 (LTA-4) to form leukotriene B4 (LTB-4). This enzyme also has some peptidase activity. The leukotrienes (LTs) are a class of structurally related lipid mediators involved in the development and maintenance of inflammatory and allergic reactions. In the biosynthesis of LTs, arachidonic acid was converted into the unstable intermediate epoxide LTA4, which may, in turn, be conjugated with glutathione to form the spasmogenic LTC4, or hydrolyzed into the pro-inflammatory lipid mediator LTB4 in a reaction catalyzed by Leukotriene A4 hydrolase (LTA4H). LTB4 is a classical chemoattractant of human neutrophils and triggers adherence and aggregation of leukocytes to vascular endothelium, and also modulates immune responses. As a bifunctional zinc metalloenzyme, LTA4H also exhibits an anion-dependant arginyl aminopeptidase activity of high efficiency and specificity in addition to its epoxide hydrolase activity. LTA4H is regarded as a therapeutic target for inflammation.
References	Mancini, JA. et al., 1995, Eur. J. Biochem. 231: 65-71. Orning, L. et al., 1994, J. Biol. Chem. 269: 11269-73. Rudberg, PC. et al., 2004, J. Biol. Chem. 279: 27376-82. Qiu, H. et al., 2006, Proc. Natl. Acad. Sci. USA. 103: 8161-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505029
NCBI GeneID	4048
NCBI Accession #	NP_000886.1
NCBI GenBank Nucleotide #	NM_000895.2
UniProt Accession #	P09960; Q6IAT6; Q9UCT7; B4DNQ9; F8VV40
Molecular Weight	66,852 Da
NCBI Official Full Name	leukotriene A-4 hydrolase isoform 1
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.