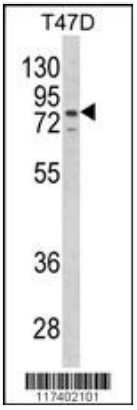
LTA4H Antibody – Rabbit Polyclonal

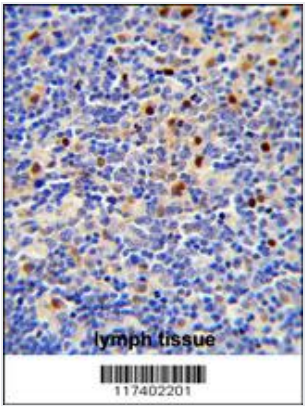
PRODUCT OVERVIEW

Product Name	LTA4H, Polyclonal Antibody
Full Product Name	LTA4H Antibody (Center)
Product Gene Name	anti-LTA4H antibody
Product Synonym Names	Leukotriene A-4 hydrolase; LTA-4 hydrolase; Leukotriene A(4) hydrolase; LTA4H; LTA4
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This LTA4H antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 163-191 amino acids from the Central region of human LTA4H.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	LTA4H peptide (MBS9224880) is used for blocking the activity of LTA4H antibody (MBS9209058)
Molecular Weight	69285
Immunogen Sequence Positions	163-191
OMIM	151570
3D Structure	ModBase 3D Structure for P09960
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-LTA4H antibody	Cancer; Immunology; Metabolism; Microbiology; Signal Transduction
Applications Tested/Suitable for anti-LTA4H antibody	Immunofluorescence (IF), ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-LTA4H antibody	WB~~1:1000
Related Product Information for anti-LTA4H antibody	DHCR24 hydrolyzes an epoxide moiety of leukotriene A4 (LTA-4) to form leukotriene B4 (LTB-4). This enzyme also has some peptidase activity.
Product References and Citations for anti-LTA4H antibody	Bevan,S., Stroke 40 (3), 696-701 (2009) Crosslin,D.R., Hum. Genet. 125 (2), 217-229 (2009) Huston,A.L., Biochim. Biophys. Acta 1784 (11), 1865-1872 (2008) Rybina,I.V., J. Biol. Chem. 272 (50), 31865-31871 (1997)
Other Notes	Small volumes of anti-LTA4H antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

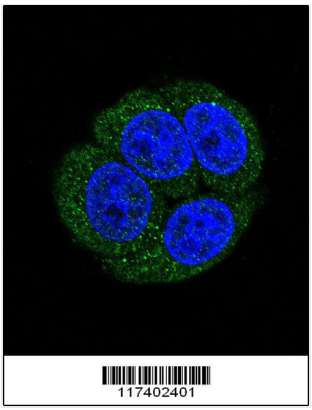
Searchable Terms for LTA4H purchase	MBS9209058 is an antibody targeting LTA4H. Also known as LTA4H Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-LTA4H antibody
Western blot analysis of LTA4H Antibody (Center) in T47D cell line lysates (35ug/lane). LTA4H (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-LTA4H antibody
Formalin-fixed and paraffin-embedded human lymph tissue reacted with LTA4H Antibody (Center) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-LTA4H antibody
Confocal immunofluorescent analysis of LTA4H Antibody (Center) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LTA4H. It may not necessarily be applicable to this product.

NCBI GI #	4505029
NCBI GeneID	4048
NCBI Accession #	NP_000886.1
NCBI Related Accession #	NP_001243572.1; NP_001243573.1
UniProt Primary Accession #	P09960
UniProt Secondary Accession #	Q6IAT6; Q9UCT7; B4DNQ9; F8VV40
UniProt Related Accession #	P09960
GenBank Nucleotide #	NM_000895.2
NCBI Official Full Name	leukotriene A-4 hydrolase isoform 1
NCBI Official Synonym Full Names	leukotriene A4 hydrolase
NCBI Official Symbol	LTA4H

UniProt Protein Name	Leukotriene A-4 hydrolase
UniProt Synonym Protein Names	Leukotriene A(4) hydrolase
Protein Family	Leukotriene A-4 hydrolase
UniProt Gene Name	LTA4H
UniProt Synonym Gene Names	LTA4; LTA-4 hydrolase
UniProt Entry Name	LKHA4_HUMAN
NCBI Protein Information	leukotriene A-4 hydrolase
NCBI Summary for LTA4H	The protein encoded by this gene is an enzyme that contains both hydrolase and aminopeptidase activities. The hydrolase activity is used in the final step of the biosynthesis of leukotriene B4, a proinflammatory mediator. The aminopeptidase activity has been shown to degrade proline-glycine-proline (PGP), a neutrophil chemoattractant and biomarker for chronic obstructive pulmonary disease (COPD). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]
UniProt Comments for LTA4H	LTA4H: Epoxide hydrolase that catalyzes the final step in the biosynthesis of the proinflammatory mediator leukotriene B4. Has also aminopeptidase activity. Belongs to the peptidase M1 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - arachidonic acid; EC 3.3.2.6; Hydrolase Chromosomal Location of Human Ortholog: 12q22 Cellular Component: nucleoplasm; cytoplasm; cytosol Molecular Function: peptidase activity; leukotriene-A4 hydrolase activity; zinc ion binding; metallopeptidase activity; epoxide hydrolase activity; aminopeptidase activity Biological Process: leukotriene biosynthetic process; peptide catabolic process; arachidonic acid metabolic process; leukotriene metabolic process; inflammatory response; proteolysis
Research Articles on LTA4H	**1.** The best proteinogenic amino acid recognized by LTA4H is arginine.
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