

LTA4H Antibody
Rabbit mAb
Catalog # AP92265

Specification

LTA4H Antibody - Product Information

Application	WB, IHC, FC, ICC
Primary Accession	P09960
Reactivity	Rat
Clonality	Monoclonal
Other Names	
LTA4; LTA4 hydrolase; LTA4H;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	69285 Da

LTA4H Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human LTA4H
Description	Hydrolyzes an epoxide moiety of leukotriene A4 (LTA-4) to form leukotriene B4 (LTB-4). The enzyme also has some peptidase activity.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

LTA4H Antibody - Protein Information

Name LTA4H

Synonyms LTA4

Function

Bifunctional zinc metalloenzyme that comprises both epoxide hydrolase (EH) and aminopeptidase activities. Acts as an epoxide hydrolase to catalyze the conversion of LTA4 to the pro-inflammatory mediator leukotriene B4 (LTB4) (PubMed: [11917124](http://www.uniprot.org/citations/11917124) target="_blank">11917124, PubMed: [12207002](http://www.uniprot.org/citations/12207002) target="_blank">12207002, PubMed: [15078870](http://www.uniprot.org/citations/15078870) target="_blank">15078870, PubMed: [18804029](http://www.uniprot.org/citations/18804029) target="_blank">18804029, PubMed: [1897988](http://www.uniprot.org/citations/1897988) target="_blank">1897988, PubMed: [1975494](http://www.uniprot.org/citations/1975494) target="_blank">1975494, PubMed: [2244921](http://www.uniprot.org/citations/2244921) target="_blank">2244921). Has also aminopeptidase activity, with high affinity for

N-terminal arginines of various synthetic tripeptides (PubMed:18804029, PubMed:20813919). In addition to its pro-inflammatory EH activity, may also counteract inflammation by its aminopeptidase activity, which inactivates by cleavage another neutrophil attractant, the tripeptide Pro-Gly-Pro (PGP), a bioactive fragment of collagen generated by the action of matrix metalloproteinase-9 (MMP9) and prolylendopeptidase (PREPL) (PubMed:20813919, PubMed:24591641). Involved also in the biosynthesis of resolvin E1 and 18S-resolvin E1 from eicosapentaenoic acid, two lipid mediators that show potent anti- inflammatory and pro-resolving actions (PubMed:21206090).

Cellular Location

Cytoplasm.

Tissue Location

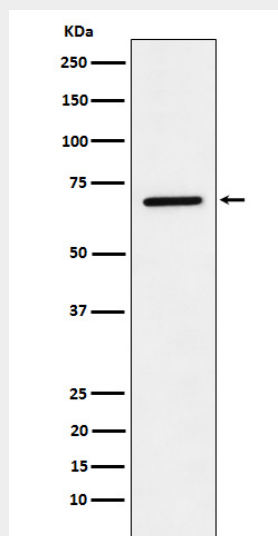
Isoform 1 and isoform 2 are expressed in monocytes, lymphocytes, neutrophils, reticulocytes, platelets and fibroblasts

LTA4H Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LTA4H Antibody - Images



Western blot analysis of LTA4H expression in A549 cell lysate.