

**LTA4H Antibody**  
Rabbit mAb  
Catalog # AP92265

## Specification

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### LTA4H Antibody - Product Information

Application	WB, IHC, FC, ICC
Primary Accession	<a href="#">P09960</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
LTA4; LTA4 hydrolase; LTA4H;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	69285 Da

### LTA4H Antibody - Additional Information

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human LTA4H</b>
Description	<b>Hydrolyzes an epoxide moiety of leukotriene A4 (LTA-4) to form leukotriene B4 (LTB-4). The enzyme also has some peptidase activity.</b>
Storage Condition and Buffer	<b>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.</b>

### 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</a>, PubMed: [12207002](http://www.uniprot.org/citations/12207002) target="\_blank">12207002</a>, PubMed: [15078870](http://www.uniprot.org/citations/15078870) target="\_blank">15078870</a>, PubMed: [18804029](http://www.uniprot.org/citations/18804029) target="\_blank">18804029</a>, PubMed: [1897988](http://www.uniprot.org/citations/1897988) target="\_blank">1897988</a>, PubMed: [1975494](http://www.uniprot.org/citations/1975494) target="\_blank">1975494</a>, PubMed: [2244921](http://www.uniprot.org/citations/2244921) target="\_blank">2244921</a>). Has also aminopeptidase activity, with high affinity for

N-terminal arginines of various synthetic tripeptides (PubMed:<a href="http://www.uniprot.org/citations/18804029" target="\_blank">18804029</a>, PubMed:<a href="http://www.uniprot.org/citations/20813919" target="\_blank">20813919</a>). 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:<a href="http://www.uniprot.org/citations/20813919" target="\_blank">20813919</a>, PubMed:<a href="http://www.uniprot.org/citations/24591641" target="\_blank">24591641</a>). 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:<a href="http://www.uniprot.org/citations/21206090" target="\_blank">21206090</a>).

### Cellular Location

Cytoplasm.

### Tissue Location

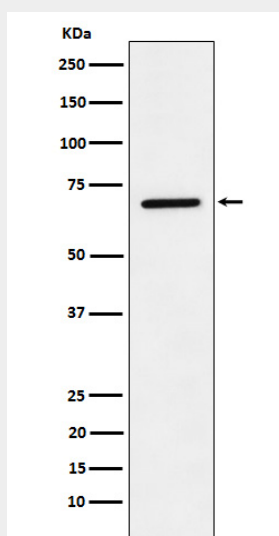
Isoform 1 and isoform 2 are expressed in monocytes, lymphocytes, neutrophils, reticulocytes, platelets and fibroblasts

### 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.