

# Leukotriene A4 Hydrolase Rabbit mAb

Catalog # AP78219

## Product Information

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<b>Application</b>	WB, IHC-P, IF, FC, ICC
<b>Primary Accession</b>	<a href="#">P09960</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human LTA4H
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	69285

## Additional Information

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<b>Gene ID</b>	4048
<b>Other Names</b>	LTA4H
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	LTA4H
<b>Synonyms</b>	LTA4
<b>Function</b>	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: <a href="#">11917124</a> , PubMed: <a href="#">12207002</a> , PubMed: <a href="#">15078870</a> , PubMed: <a href="#">18804029</a> , PubMed: <a href="#">1897988</a> , PubMed: <a href="#">1975494</a> , PubMed: <a href="#">2244921</a> , PubMed: <a href="#">2996528</a> ). Can utilize LTA5 less effectively as a substrate than LTA4, and produce LTB5 (PubMed: <a href="#">2996528</a> ). Also has aminopeptidase activity, with high affinity for N-terminal arginines of various synthetic tripeptides (PubMed: <a href="#">18804029</a> , PubMed: <a href="#">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:[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**

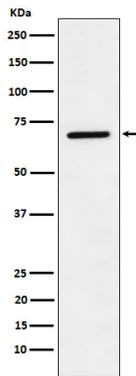
Cytoplasm.

**Tissue Location**

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

**Images**

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