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LTA4H / LTA4 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS11803

Specification

LTA4H / LTA4 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P09960
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**69kDa KDa**

LTA4H / LTA4 Antibody - Additional Information

Gene ID 4048

Other Names
Leukotriene A-4 hydrolase, LTA-4 hydrolase, 3.3.2.6, Leukotriene A(4) hydrolase, LTA4H, LTA4

Target/Specificity
Recombinant human LTA4 hydrolase1,2

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
LTA4H / LTA4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

LTA4H / LTA4 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, PubMed:12207002, PubMed:15078870, PubMed:18804029, PubMed:1897988, PubMed:1975494, PubMed:2244921). Has also aminopeptidase activity, with high affinity for N-terminal arginines of various synthetic tripeptides (PubMed:<a

href="http://www.uniprot.org/citations/20813919" target="_blank">20813919, PubMed:18804029). 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

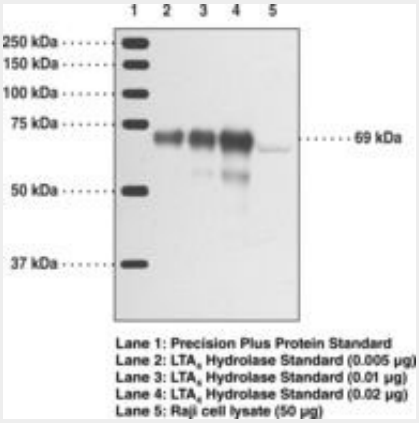
Volume
1 ea

LTA4H / LTA4 Antibody - Protocols

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

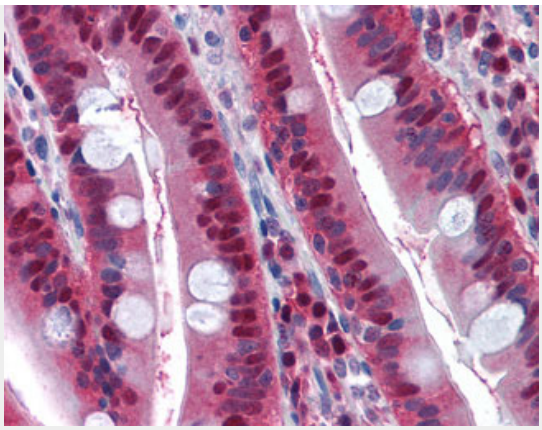
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LTA4H / LTA4 Antibody - Images



Western blot of LTA4H / LTA4 antibody ALS11803.

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Anti-LTA4H antibody IHC of human small intestine.

LTA4H / LTA4 Antibody - Background

Epoxide hydrolase that catalyzes the final step in the biosynthesis of the proinflammatory mediator leukotriene B4. Has also aminopeptidase activity.

LTA4H / LTA4 Antibody - References

Minami M.,et al.J. Biol. Chem. 262:13873-13876(1987).
Funk C.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:6677-6681(1987).
Mancini J.A.,et al.Eur. J. Biochem. 231:65-71(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.