

**LTA4H / LTA4 Antibody (clone 9G8)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS16069****Specification**

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**LTA4H / LTA4 Antibody (clone 9G8) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC, WB, IF            |
| Primary Accession | <a href="#">P09960</a> |
| Reactivity        | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Calculated MW     | 69kDa KDa              |

**LTA4H / LTA4 Antibody (clone 9G8) - 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**

Human LTA4H / LTA4

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

LTA4H / LTA4 Antibody (clone 9G8) is for research use only and not for use in diagnostic or therapeutic procedures.

**LTA4H / LTA4 Antibody (clone 9G8) - 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/20813919" target="\_blank">20813919</a>, PubMed:<a href="http://www.uniprot.org/citations/18804029" target="\_blank">18804029</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

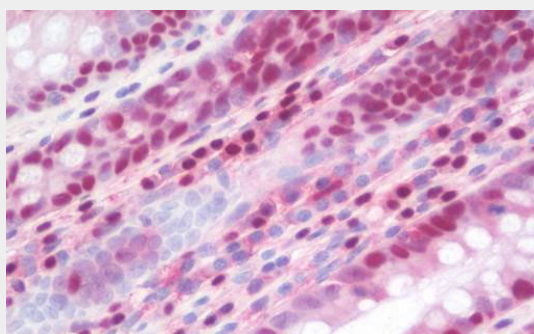
Isoform 1 and isoform 2 are expressed in monocytes, lymphocytes, neutrophils, reticulocytes, platelets and fibroblasts

#### LTA4H / LTA4 Antibody (clone 9G8) - Protocols

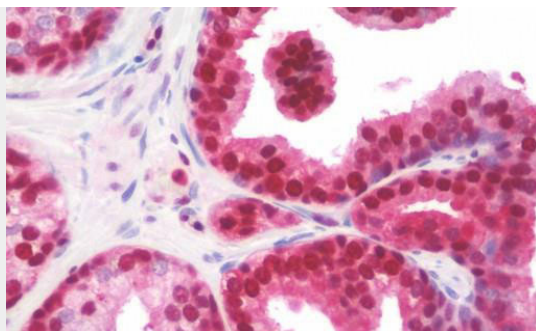
Provided below are standard protocols that you may find useful for product applications.

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

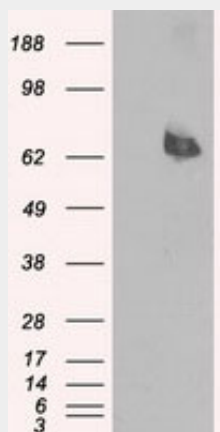
#### LTA4H / LTA4 Antibody (clone 9G8) - Images



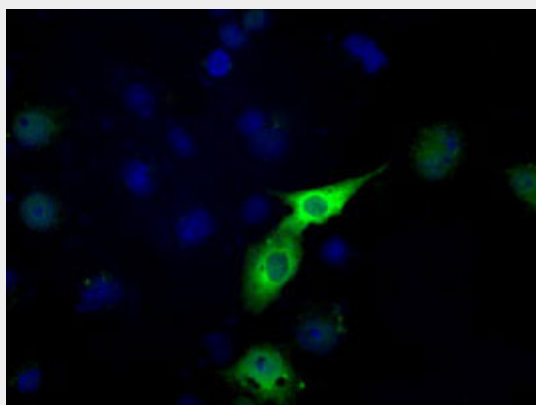
Anti-LTA4H / LTA4 antibody IHC staining of human colon.



Anti-LTA4H / LTA4 antibody IHC staining of human prostate.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY LTA4H...



Anti-LTA4H mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...

#### **LTA4H / LTA4 Antibody (clone 9G8) - Background**

Epoxide hydrolase that catalyzes the final step in the biosynthesis of the proinflammatory mediator leukotriene B<sub>4</sub>. Has also aminopeptidase activity.

#### **LTA4H / LTA4 Antibody (clone 9G8) - 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.

