10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# LTA4H / LTA4 Antibody (clone 8F4)

**Mouse Monoclonal Antibody**
**Catalog # ALS17143**

## Specification

### LTA4H / LTA4 Antibody (clone 8F4) - Product Information

| | |
|---|---|
| Application | **IHC-P, WB** |
| Primary Accession | P09960 |
| Other Accession | 4048 |
| Reactivity | **Human, Rat, Dog** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG2a** |
| Calculated MW | **69285** |

### LTA4H / LTA4 Antibody (clone 8F4) - Additional Information

**Gene ID** 4048

**Other Names**
LTA4H, Leukotriene A(4) hydrolase, Leukotriene A4 hydrolase, Leukotriene A-4 hydrolase, LTA-4 hydrolase, LTA4

**Target/Specificity**
Human LTA4H / LTA4

**Reconstitution & Storage**
PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

**Precautions**
LTA4H / LTA4 Antibody (clone 8F4) is for research use only and not for use in diagnostic or therapeutic procedures.

### LTA4H / LTA4 Antibody (clone 8F4) - 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:<a href="http://www.uniprot.org/citations/11917124" target="_blank">11917124</a>, PubMed:<a href="http://www.uniprot.org/citations/12207002" target="_blank">12207002</a>, PubMed:<a href="http://www.uniprot.org/citations/15078870" target="_blank">15078870</a>, PubMed:<a href="http://www.uniprot.org/citations/18804029" target="_blank">18804029</a>, PubMed:<a href="http://www.uniprot.org/citations/1897988"

target="_blank">1897988</a>, PubMed:<a href="http://www.uniprot.org/citations/1975494" target="_blank">1975494</a>, PubMed:<a href="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

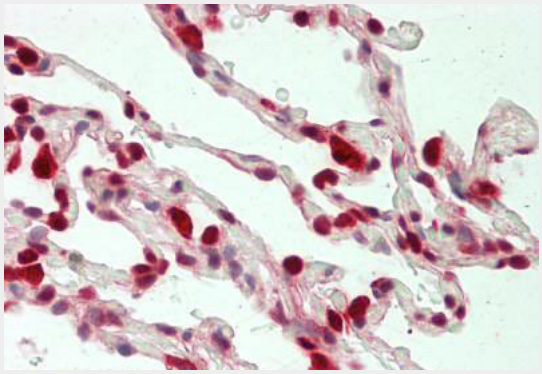
**Volume**
50 µl

## LTA4H / LTA4 Antibody (clone 8F4) - Protocols

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

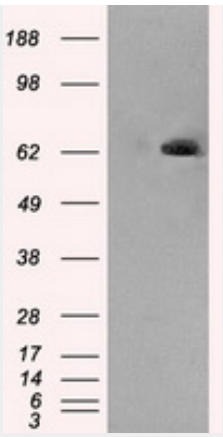
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## LTA4H / LTA4 Antibody (clone 8F4) - Images

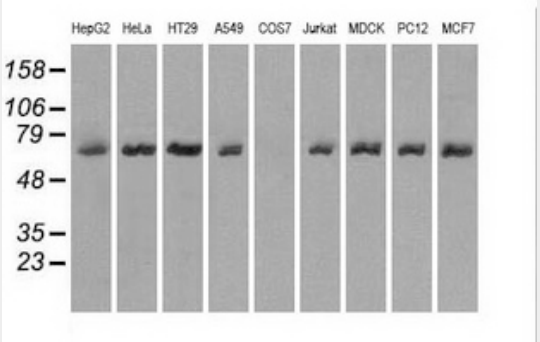


Human Lung: Formalin-Fixed, Paraffin-Embedded (FFPE)

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999




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




Western blot of extracts (35 ug) from 9 different cell lines by using anti-LTA4H monoclonal...

**LTA4H / LTA4 Antibody (clone 8F4) - Background**

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

**LTA4H / LTA4 Antibody (clone 8F4) - 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.