10320 Camino Santa Fe, Suite G
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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:11917124, PubMed:12207002, PubMed:15078870, PubMed:18804029, PubMed:<a href="http://www.uniprot.org/citations/1897988"

target="_blank">1897988, PubMed:1975494, PubMed:2244921). Has also aminopeptidase activity, with high affinity for N-terminal arginines of various synthetic tripeptides (PubMed: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

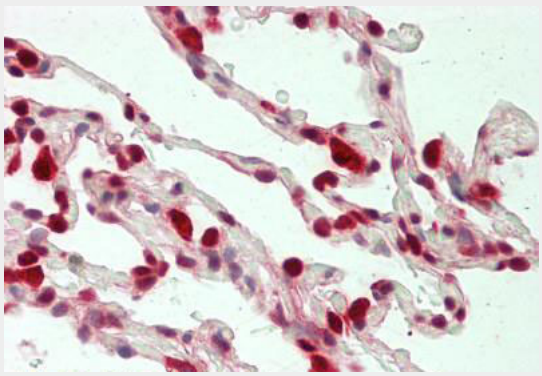
Volume
50 µl

LTA4H / LTA4 Antibody (clone 8F4) - Protocols

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

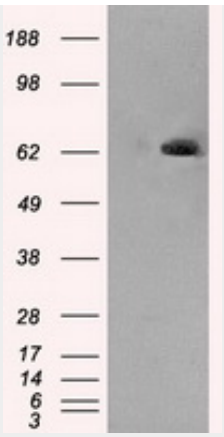
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LTA4H / LTA4 Antibody (clone 8F4) - Images

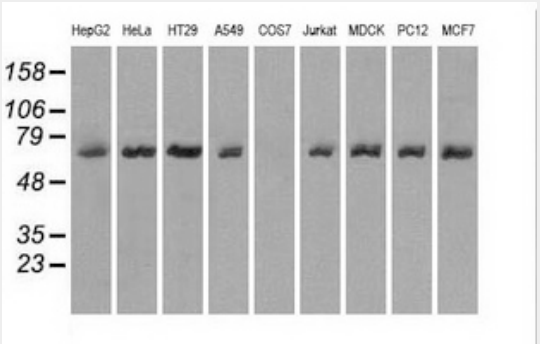


Human Lung: Formalin-Fixed, Paraffin-Embedded (FFPE)

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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.