

LTA4H / LTA4 Antibody (clone 8F4)
Mouse Monoclonal Antibody
Catalog # ALS17143**Specification**

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

Application	WB, IHC-P
Primary Accession	P09960
Other Accession	4048
Reactivity	Human, Rat, Dog
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	69285
Dilution	WB~~1:1000 IHC-P~~N/A

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](http://www.uniprot.org/citations/11917124) target="_blank">11917124, PubMed: [12207002](http://www.uniprot.org/citations/12207002) target="_blank">12207002, PubMed: [15078870](http://www.uniprot.org/citations/15078870) target="_blank">15078870)

target="_blank">15078870, PubMed:18804029, PubMed:1897988, PubMed:1975494, PubMed:2244921). Also has aminopeptidase activity, with high affinity for N-terminal arginines of various synthetic tripeptides (PubMed:18804029, PubMed:20813919). 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

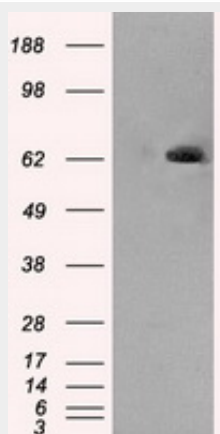
Provided below are standard protocols that you may find useful for product applications.

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

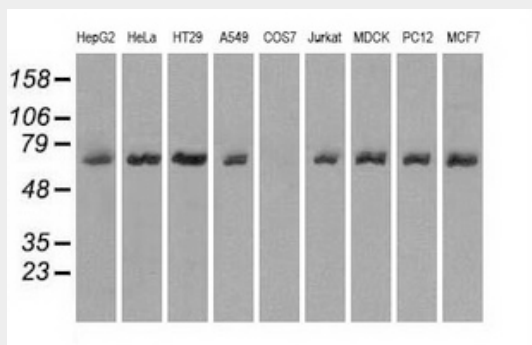
LTA4H / LTA4 Antibody (clone 8F4) - Images



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



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.