

KD-Validated Anti-Leukotriene A4 Hydrolase Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI1898**Specification****KD-Validated Anti-Leukotriene A4 Hydrolase Mouse Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P09960
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Calculated MW	Predicted, 69 kDa, observed, 69 kDa kDa
Gene Name	LTA4H
Aliases	Leukotriene A4 Hydrolase; Tripeptide Aminopeptidase LTA4H; Leukotriene A-4 Hydrolase; LTA-4 Hydrolase; Testicular Secretory Protein Li 27; Leukotriene A(4) Hydrolase; EC 3.4.11.4; EC 3.3.2.6; LTA4 Recombinant protein of human LTA4H
Immunogen	

KD-Validated Anti-Leukotriene A4 Hydrolase Mouse Monoclonal Antibody - Additional Information

Gene ID	4048
Other Names	Leukotriene A-4 hydrolase, LTA-4 hydrolase, 3.3.2.6, Leukotriene A(4) hydrolase, Tripeptide aminopeptidase LTA4H, 3.4.11.4, LTA4H, LTA4

KD-Validated Anti-Leukotriene A4 Hydrolase Mouse Monoclonal 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](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, PubMed: [18804029](http://www.uniprot.org/citations/18804029) target="_blank">18804029, PubMed: [1897988](http://www.uniprot.org/citations/1897988) target="_blank">1897988, PubMed: [1975494](http://www.uniprot.org/citations/1975494) target="_blank">1975494, PubMed: [2244921](http://www.uniprot.org/citations/2244921) target="_blank">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

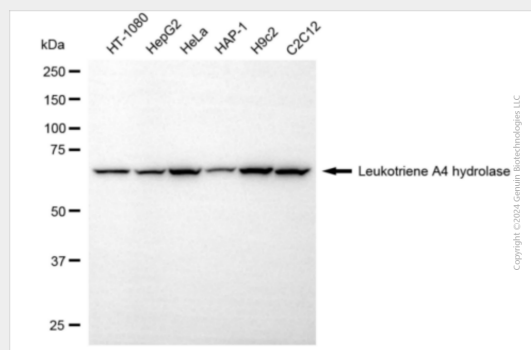
Isoform 1 and isoform 2 are expressed in monocytes, lymphocytes, neutrophils, reticulocytes, platelets and fibroblasts

KD-Validated Anti-Leukotriene A4 Hydrolase Mouse Monoclonal Antibody - Protocols

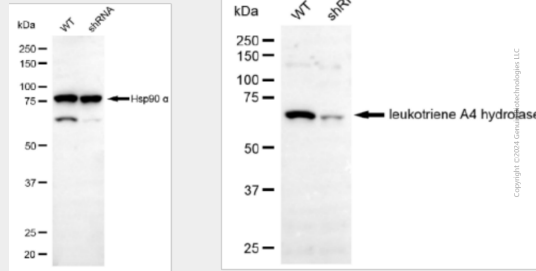
Provided below are standard protocols that you may find useful for product applications.

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

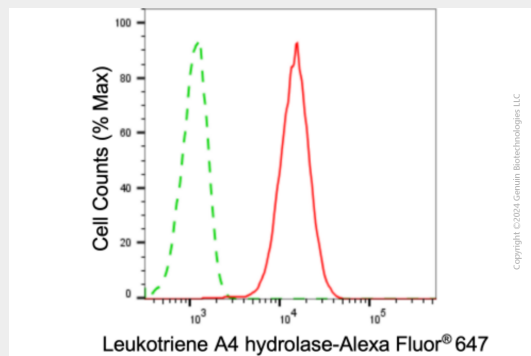
KD-Validated Anti-Leukotriene A4 Hydrolase Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-leukotriene A4 hydrolase antibody (Cat#AGI1898). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-leukotriene A4 hydrolase antibody (Cat#AGI1898, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-leukotriene A4 hydrolase antibody (Cat#AGI1898). Leukotriene A4 hydrolase expression in wild type (WT) and leukotriene A4 hydrolase (LTA4H) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-leukotriene A4 hydrolase antibody (Cat#AGI1898, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of Leukotriene A4 hydrolase expression in C2C12 cells using anti-Leukotriene A4 hydrolase antibody (Cat#AGI1898, 1:2,000). Green, isotype control; red, Leukotriene A4 hydrolase.