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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**
Immunogen	**Recombinant protein of human LTA4H**

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, PubMed:12207002, PubMed: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:<a

href="http://www.uniprot.org/citations/18804029" target="_blank">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.

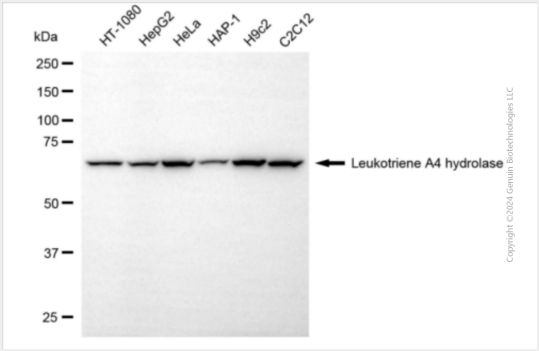
Tissue Location
Isoform 1 and isoform 2 are expressed in monocytes, lymphocytes, neutrophils, reticulocytes, platelets and fibroblasts

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 Cytomety
- 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.

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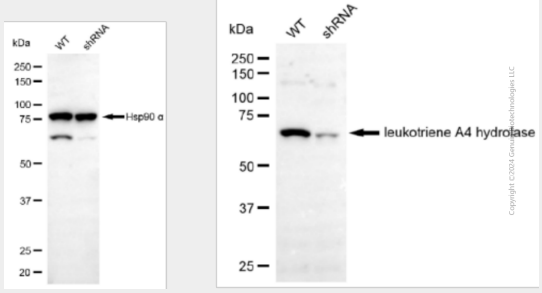
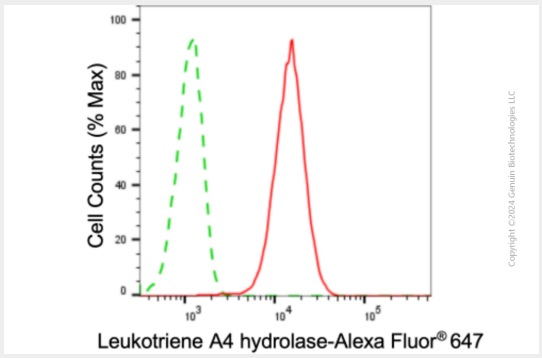


Western blotting analysis using anti-leukotriene A4 hydrolase antibody (Cat#AGI1898). Leukotriene A4 hydrolase expression in wild type (WT) and leukotriene A4 hydrolase (LTA4H) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated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