

KD-Validated Anti-Leukotriene A4 Hydrolase Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI1897**Specification****KD-Validated Anti-Leukotriene A4 Hydrolase Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	P09960
Reactivity	Rat, Human
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:

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

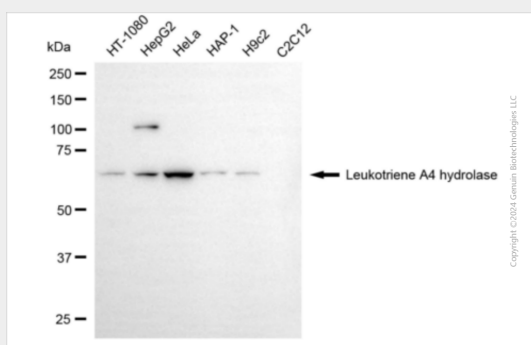
Isoform 1 and isoform 2 are expressed in monocytes, lymphocytes, neutrophils, reticulocytes, platelets and fibroblasts

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

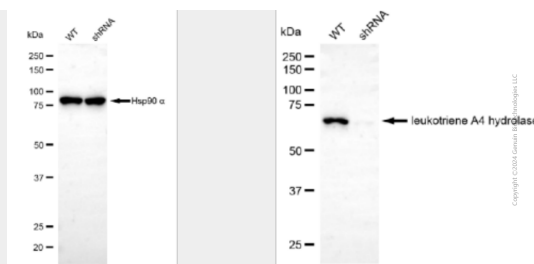
Provided below are standard protocols that you may find useful for product applications.

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

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



Western blotting analysis using anti-leukotriene A4 hydrolase antibody (Cat#AGI1897). 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#AGI1897, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-leukotriene A4 hydrolase antibody (Cat#AGI1897). 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#AGI1897, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.