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

Mouse monoclonal antibody
Catalog # AGI1898

## Product Information

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| **Application** | WB, FC |
| **Primary Accession** | P09960 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse IgG2b |
| **Clone Names** | 24GB5540 |
| **Calculated MW** | 69285 |
| **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 |

## Additional Information

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| **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 |

## Protein Information

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| **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, PubMed:2996528). Can utilize LTA5 less effectively as a substrate than LTA4, and produce LTB5 (PubMed:2996528). 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 |

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| | 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 |

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