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KD-Validated Anti-Leukotriene A4 Hydrolase Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI1897

Product Information

Application	WB
Primary Accession	P09960
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Names	24GB5535
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

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

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

	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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