

Product Name: KD-Validated Leukotriene A4 Hydrolase Mouse Monoclonal Antibody
Catalog #: KVA00704

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:2,500-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 69.3kDa

Antigen Information

Gene Name	LTA4H Leukotriene A4 Hydrolase; Tripeptide Aminopeptidase LTA4H; Leukotriene A-4 Hydrolase;
Alternative Names	LTA-4 Hydrolase; Testicular Secretory Protein Li 27; Leukotriene A(4) Hydrolase; EC 3.4.11.4; EC 3.3.2.6; LTA4
Gene ID	4048.0
SwissProt ID	P09960
Immunogen	Recombinant protein of human LTA4H

Background

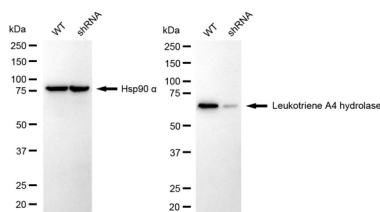
The protein encoded by this gene is an enzyme that contains both hydrolase and aminopeptidase activities. The hydrolase activity is used in the final step of the biosynthesis of leukotriene B4, a proinflammatory mediator. The aminopeptidase activity

has been shown to degrade proline-glycine-proline (PGP), a neutrophil chemoattractant and biomarker for chronic obstructive pulmonary disease (COPD). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

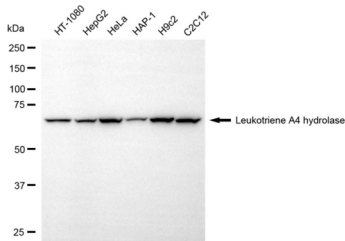
Research Area

Immunology,Cancer,Metabolism

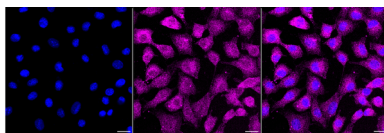
Image Data



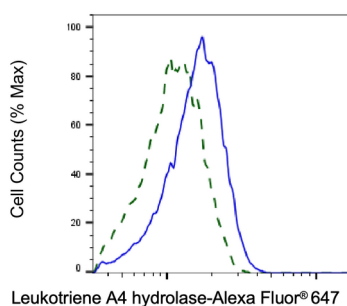
Western blotting analysis using leukotriene A4 hydrolase antibody (KVA00704). Leukotriene A4 hydrolase expression in wild type (WT) and leukotriene A4 hydrolase (LTA4H) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with leukotriene A4 hydrolase antibody (KVA00704, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



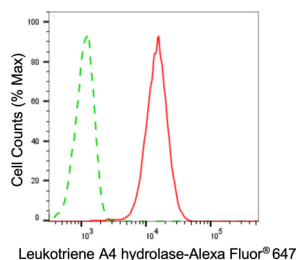
Western blotting analysis using leukotriene A4 hydrolase antibody (KVA00704). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with leukotriene A4 hydrolase antibody (KVA00704, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Leukotriene A4 hydrolase antibody (KVA00704, 1:1,000). Nuclei were stained blue with DAPI; Leukotriene A4 hydrolase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of Leukotriene A4 hydrolase knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Leukotriene A4 hydrolase antibody (KVA00704, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Leukotriene A4 hydrolase expression in C2C12 cells using Leukotriene A4 hydrolase antibody (KVA00704, 1:2,000). Green, isotype control; red, Leukotriene A4 hydrolase.