

LTA4H Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2844c

Product Information

Application WB, IHC-P, IF, E

Primary Accession P09960 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB17402 **Calculated MW** 69285 **Antigen Region** 163-191

Additional Information

Gene ID 4048

Other Names Leukotriene A-4 hydrolase, LTA-4 hydrolase, Leukotriene A(4) hydrolase,

LTA4H, LTA4

Target/Specificity This LTA4H antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 163-191 amino acids from the Central

region of human LTA4H.

Dilution WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent

concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions LTA4H Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

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: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

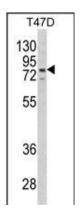
Background

DHCR24 hydrolyzes an epoxide moiety of leukotriene A4 (LTA-4) to form leukotriene B4 (LTB-4). This enzyme also has some peptidase activity.

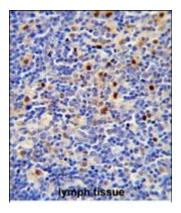
References

Bevan, S., Stroke 40 (3), 696-701 (2009) Crosslin, D.R., Hum. Genet. 125 (2), 217-229 (2009) Huston, A.L., Biochim. Biophys. Acta 1784 (11), 1865-1872 (2008) Rybina, I.V., J. Biol. Chem. 272 (50), 31865-31871 (1997)

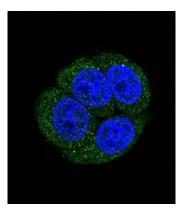
Images



Western blot analysis of LTA4H Antibody (Center) (Cat. #AP2844c) in T47D cell line lysates (35ug/lane). LTA4H (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lymph tissue reacted with CORO1A Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of LTA4H Antibody (Center)(Cat#AP2844c) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.