

LTA4H Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2844c**Specification**

LTA4H Antibody (Center) - Product Information

Application	WB, IHC-P, IF,E
Primary Accession	P09960
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	69285
Antigen Region	163-191

LTA4H Antibody (Center) - 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~~1:50~100
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 purified through a protein A column, followed by peptide affinity purification.

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.

LTA4H Antibody (Center) - 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

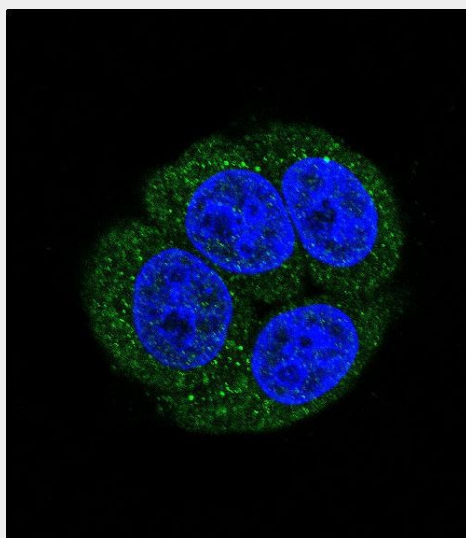
Isoform 1 and isoform 2 are expressed in monocytes, lymphocytes, neutrophils, reticulocytes, platelets and fibroblasts

LTA4H Antibody (Center) - Protocols

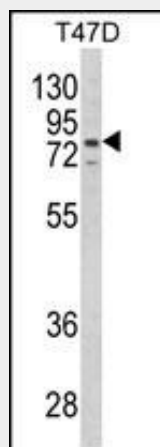
Provided below are standard protocols that you may find useful for product applications.

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

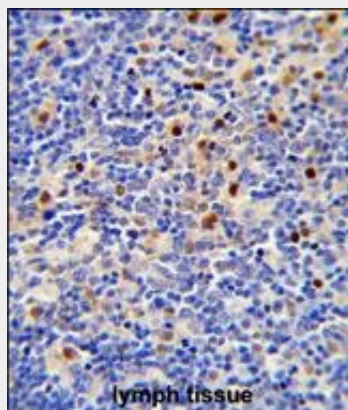
LTA4H Antibody (Center) - Images



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



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 LTA4H Antibody (Center) (Cat. #AP2844c), 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.

LTA4H Antibody (Center) - Background

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

LTA4H Antibody (Center) - 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)