10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

LTA4H Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2844c

Specification

LTA4H Antibody (Center) - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	P09960
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
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

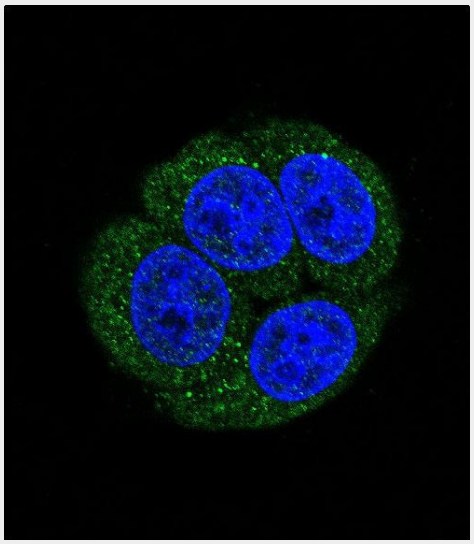
Target/Specificity
This LTA4H antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 163-191 amino acids from the Central region of human LTA4H.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:50~100

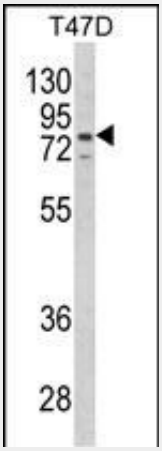
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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



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.

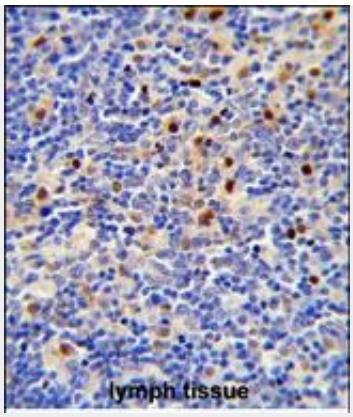
therapeutic procedures.

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 proinflammatory mediator leukotriene B4 (LTB4) (PubMed:11917124, PubMed:12207002, PubMed:15078870, PubMed:18804029, PubMed:1897988, PubMed:1975494, PubMed:2244921). Has also aminopeptidase activity, with high affinity for N-terminal arginines of various synthetic tripeptides (PubMed:20813919, PubMed:18804029). In addition to its proinflammatory 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:<a href="http://www.uniprot.org/citations/24591641"



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)

target="_blank">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 Cytomety
- Cell Culture