

LTC4S Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57084

Specification

LTC4S Polyclonal Antibody - Product Information

WB, IHC-P, IHC-F, IF, ICC Application

Primary Accession 016873 Reactivity Rat **Rabbit** Host Clonality **Polyclonal** Calculated MW 17 KDa

Physical State Immunogen KLH conjugated synthetic peptide derived

Liquid

laG

from human LTC4S

Epitope Specificity 51-150/150

Isotype **Purity**

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus outer membrane; Multi-pass

> membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein

SIMILARITY Belongs to the MAPEG family.

Homotrimer, Interacts with ALOX5AP and **SUBUNIT**

ALOX5.

DISEASE LTC4 synthase deficiency is associated

with a neurometabolic developmental disorder characterized by muscular hypotonia, psychomotor retardation, failure to thrive, and microcephaly. This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Important Note

affinity purified by Protein A

The MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) family includes a number of human proteins, several of which are involved the production of leukotrienes. This gene encodes an enzyme that catalyzes the first step in the biosynthesis of cysteinyl leukotrienes, potent biological compounds derived from arachidonic acid. Leukotrienes have been implicated as mediators of anaphylaxis and inflammatory conditions such as human bronchial asthma. This protein localizes to the nuclear envelope and adjacent endoplasmic reticulum. [provided by RefSeq, Jul 2008]

LTC4S Polyclonal Antibody - Additional Information

Gene ID 4056



Other Names

Leukotriene C4 synthase, LTC4 synthase, 4.4.1.20, Glutathione S-transferase LTC4, 2.5.1.-, Leukotriene-C(4) synthase, Leukotriene-C4 synthase, LTC4S

Target/Specificity

Detected in lung, platelets and the myelogenous leukemia cell line KG-1 (at protein level). LTC4S activity is present in eosinophils, basophils, mast cells, certain phagocytic mononuclear cells, endothelial cells, vascular smooth muscle cells and platelets.

Dilution

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<span class = "dilution_WB">WB~~1:1000</span><br \><span class
= "dilution_IHC-P">IHC-P~~N/A</span><br \><span class
= "dilution_IHC-F">IHC-F~~N/A</span><br \><span class
= "dilution_IF">IF~~1:50~200</span><br \><span class = "dilution_ICC">ICC~~N/A</span>
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Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

LTC4S Polyclonal Antibody - Protein Information

Name LTC4S

Function

Catalyzes the conjugation of leukotriene A4 with reduced glutathione (GSH) to form leukotriene C4 with high specificity (PubMed:23409838, PubMed:27365393, PubMed:27791009, PubMed:7937884, PubMed:9153254). Can also catalyze the transfer of a glutathionyl group from glutathione (GSH) to 13(S),14(S)-epoxy-docosahexaenoic acid to form maresin conjugate in tissue regeneration 1 (MCTR1), a bioactive lipid mediator that possess potent anti-inflammatory and proresolving actions (PubMed:27791009).

Cellular Location

Nucleus outer membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Nucleus membrane; Multi-pass membrane protein

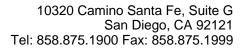
Tissue Location

Detected in lung, platelets and the myelogenous leukemia cell line KG-1 (at protein level). LTC4S activity is present in eosinophils, basophils, mast cells, certain phagocytic mononuclear cells, endothelial cells, vascular smooth muscle cells and platelets

LTC4S Polyclonal Antibody - Protocols

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

Western Blot





• Blocking Peptides

- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LTC4S Polyclonal Antibody - Images