10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LTC4S Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8584a

Product Information

Application	WB, E
Primary Accession	Q16873
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22327
Calculated MW	16567
Antigen Region	29-55

Additional Information

Gene ID	4056
Other Names	Leukotriene C4 synthase, LTC4 synthase, Leukotriene-C(4) synthase, LTC4S
Target/Specificity	This LTC4S antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 29-55 amino acids from the N-terminal region of human LTC4S.
Dilution	WB~~1:1000 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	LTC4S Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

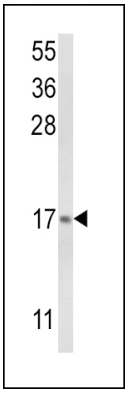
Background

LTC4S catalyzes the conjugation of leukotriene A4 with reduced glutathione to form leukotriene C4.

References

Song,X.Y., et.al., Diabetologia 52 (8), 1543-1553 (2009)
Schurks,M., et.al., J Pain 10 (7), 759-766 (2009)

Images



Western blot analysis of LTC4S Antibody (N-term) (Cat. #AP8584a) in NCI-H460 cell line lysates (35ug/lane). LTC4S (arrow) was detected using the purified Pab.(2ug/ml)

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