

**LTA4H Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2844c****Specification**

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**LTA4H Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P09960](#)**LTA4H Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 4048**Other Names**

Leukotriene A-4 hydrolase, LTA-4 hydrolase, Leukotriene A(4) hydrolase, LTA4H, LTA4

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2844c](/products/AP2844c) was selected from the Center region of human LTA4H. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**LTA4H Antibody (Center) Blocking Peptide - 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](http://www.uniprot.org/citations/11917124), PubMed: [12207002](http://www.uniprot.org/citations/12207002), PubMed: [15078870](http://www.uniprot.org/citations/15078870), PubMed: [18804029](http://www.uniprot.org/citations/18804029), PubMed: [1897988](http://www.uniprot.org/citations/1897988), PubMed: [1975494](http://www.uniprot.org/citations/1975494), PubMed: [2244921](http://www.uniprot.org/citations/2244921)). Has also aminopeptidase activity, with high affinity for

N-terminal arginines of various synthetic tripeptides (PubMed:<a href="http://www.uniprot.org/citations/20813919" target="\_blank">20813919</a>, PubMed:<a href="http://www.uniprot.org/citations/18804029" target="\_blank">18804029</a>). 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:<a href="http://www.uniprot.org/citations/20813919" target="\_blank">20813919</a>, PubMed:<a href="http://www.uniprot.org/citations/24591641" target="\_blank">24591641</a>). 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:<a href="http://www.uniprot.org/citations/21206090" target="\_blank">21206090</a>).

#### **Cellular Location**

Cytoplasm.

#### **Tissue Location**

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

#### **LTA4H Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **LTA4H Antibody (Center) Blocking Peptide - Images**

#### **LTA4H Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)