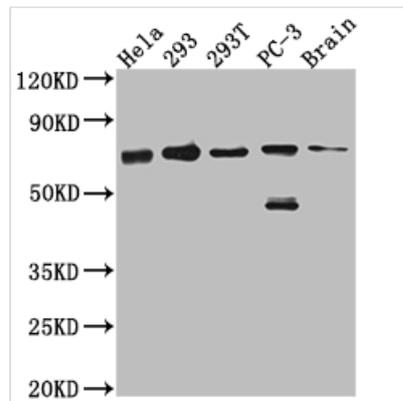




# LTA4H Antibody

<b>Product Code</b>	CSB-RA198749A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P09960
<b>Immunogen</b>	A synthesized peptide derived from human LTA4H
<b>Species Reactivity</b>	Human, Mouse
<b>Tested Applications</b>	ELISA, WB; Recommended dilution: WB:1:500-1:5000
<b>Relevance</b>	Epoxide hydrolase that catalyzes the final step in the biosynthesis of the proinflammatory mediator leukotriene B4. Has also aminopeptidase activity.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cancer; Immunology; Metabolism
<b>Gene Names</b>	LTA4H
<b>Accession NO.</b>	6G7

## Image



### Western Blot

Positive WB detected in: HeLa whole cell lysate, 293 whole cell lysate, 293T whole cell lysate, PC-3 whole cell lysate, Mouse Brain whole cell lysate

All lanes: LTA4H antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 70, 60, 58, 67 kDa

Observed band size: 70 kDa

## Description

LTA4H, an enzyme that converts LTA4 to LTB4, regulates the balance between the anti-inflammatory lipoxins and pro-inflammatory LTB4, with direct implications for TB-driven inflammation. In addition to its epoxide hydrolase activity, LTA4H also possesses anion-dependent aminopeptidase activity. As an



aminopeptidase, LTA4H degrades the N-terminus of peptides. The aminopeptidase activity of LTA4H is generally assumed to be involved in the processing of peptides related to inflammation and host defense and may be involved in human cancer. Overexpression of LTA4H has been found in several human cancers including skin cancer.

The vectors expressing anti-LTA4H antibody were constructed as follows: immunizing an animal with A synthesized peptide derived from human LTA4H, isolating the positive splenocyte and extracting RNA, obtaining DNA by reverse transcription, sequencing and screening LTA4H antibody gene, and amplifying heavy and light chain sequence by PCR and cloning them into plasma vectors. After that, the vector clones were transfected into the mammalian cells for production. The product is the recombinant LTA4H antibody. Recombinant LTA4H antibody in the culture medium was purified using Affinity-chromatography. It can react with LTA4H protein from Human, Mouse and is used in the ELISA, WB.