

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Leukotriene A4 Hydrolase/LTA4H in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Leukotriene A4 Hydrolase/LTA4H Pro2-Asp611 Accession # P09960
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Leukotrienes are a family of lipid mediators important in a variety of allergic and inflammatory reactions. Synthesized by leukocytes, these molecules are divided into two classes, the spasmogenic cysteinyl leukotrienes and LTB₄, a classical chemoattractant (1). Encoded by the LTA4H gene, Leukotriene A4 Hydrolase catalyzes the conversion of unstable epoxide LTA₄ to LTB₄, which is the final and committed step in LTB₄ biosynthesis. As a bifunctional zinc metalloenzyme, LTA4H also acts as an arginyl aminopeptidase (2). LTA4H is a drug target for anti-inflammation, and for cancer prevention and therapy (1, 3).

The mature chain of human LTA4H consists of 610 amino acids (residues 2-611). It is highly specific for LTA₄, which also covalently modifies and inhibits the enzyme. The aminopeptidase activity is enhanced by monovalent anions (1). R&D Systems rhLTA4H corresponds to the mature chain, and is characterized by its arginyl aminopeptidase activity.

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