

Datasheet for ABIN6657368
anti-ALOX5 antibody (pSer523)



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1 Image

Overview

Quantity:	100 µL
Target:	ALOX5
Binding Specificity:	pSer523
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALOX5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	5-Lipoxygenase phospho S523 Antibody
Immunogen:	Anti-5-Lipoxygenase pS523 Antibody was produced by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser523.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-5-Lipoxygenase pS523 Antibody is directed against human 5-Lipoxygenase phosphorylated at S523.
Purification:	The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities.

Target Details

Target:	ALOX5
Alternative Name:	5-Lipoxygenase (ALOX5 Products)
Background:	Synonyms: Arachidonate 5-lipoxygenase, 5-LO Background: 5-Lipoxygenase pS523 antibody recognizes the enzyme 5-lipoxygenase (5-LO) which plays a key role in regulating the production of leukotrienes (LTs). Overproduction of LTs contributes to several diseases, most notably chronic inflammatory diseases, including asthma, fibrosis and atherosclerosis. Recent work has demonstrated that the activity of 5-LO is regulated by PKA phosphorylation of serine-523 in 5-LO. Under normal conditions, this phosphorylation may be important in limiting inflammation. Abnormal signaling through cAMP and PKA, then, could contribute to a variety of diseases, including those characterized by chronic inflammation. The phospho-specific antibody to Ser523 on 5-LO is thus likely to provide a valuable tool for studies of the role of 5-LO regulation in diseases such as asthma, fibrosis and atherosclerosis. Anti-5-Lipoxygenase pS523 antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research. Gene Name: ALOX5
Gene ID:	240
UniProt:	P09917

Application Details

Application Notes:	ELISA_Dilution: 1:10,000 Western_Blot_Dilution: 1:1000
Comment:	Anti-5-Lipoxygenase pS523 antibody has been tested in Western Blotting and is suitable for use in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 80 kDa corresponding to the 80 kDa 5-LO proteins phosphorylated at Ser523.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5 Stabilizer: 0.1 mg/mL Bovine Serum Albumin (BSA) - IgG and Protease free, 50 % (v/v) Glycerol
Storage:	4 °C, -20 °C
Storage Comment:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For

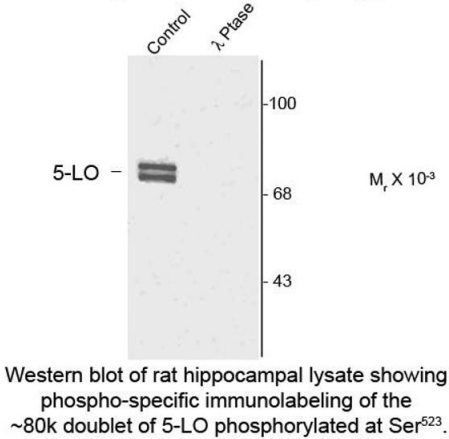
Handling

extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiry Date: 12 months

Images

Anti-Phospho-Ser⁵²³ 5-Lipoxygenase



Western Blotting

Image 1. Western Blot of Anti-5-Lipoxygenase pS523 (Rabbit) Antibody - 600-401-D03 Western Blot of Rabbit Anti-5-Lipoxygenase pS523 antibody. Lane 1: rat cortex lysate. Lane 2: rat cortex lysate incubated in λ-Ptase (1200 units for 30 min). Load: 10 µg per lane. Primary antibody: 5-LO Ser523 antibody at 1:400 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~80k doublet of 5-LO phosphorylated at Ser523. Other band(s): none.