

Datasheet for ABIN318947
anti-ALOX5 antibody (pSer523)



[Go to Product page](#)

Overview

Quantity:	0.1 mL
Target:	ALOX5
Binding Specificity:	pSer523
Reactivity:	Human, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALOX5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Synthetic phosphopeptide corresponding to an amino acid sequence within human 5-lipoxygenase which includes phosphorylated Ser523.
Isotype:	IgG
Specificity:	This antibody specifically recognises human 5-lipoxygenase (5-LO, also known as arachidonate 5-lipoxygenase) when phosphorylated at Ser523.
Purification:	Purified

Target Details

Target:	ALOX5
Alternative Name:	ALOX5 / LOG5 (ALOX5 Products)

Target Details

Background: 5-LO is an enzyme that catalyses the synthesis of leukotrienes (LT's) from arachidonic acid (a polyunsaturated fatty acid), by the insertion of an oxygen into the arachidonic backbone. 5-LO requires calcium, ATP and the 5LOactivating protein as cofactors for full activity. Leukotrienes are synthesised and secreted by leukocytes in response to immunologic or inflammatory stimuli, such as in asthma and allergic reactions. The biological effects of LT's include leukocyte chemotaxis, pulmonary airway constriction, mucous hypersecretion, vasoconstriction and increased vascular permeability. In recent years 5-LO has also been implicated in the regulation of cell proliferation and apoptosis and has been found in a broad variety of cancer cells. **Synonyms:** 5-LO, 5-lipoxygenase, Arachidonate 5-lipoxygenase

Gene ID: 240

NCBI Accession: [NP_000689](#)

UniProt: [P09917](#)

Application Details

Application Notes: Western Blot: 1: 1000, detects a doublet of approximately 80 kDa in rat cortex lysate.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 10 mM HEPES pH 7.5, 150 mM NaCl containing 0.09 % Sodium Azide, 0.01 % Bovine Serum Albumin, 50 % Glycerol

Preservative: Sodium azide

Precaution of Use: This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.