

Datasheet for ABIN7144541
anti-ALOX15 antibody (AA 1-225) (HRP)



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Overview

Quantity:	100 µL
Target:	ALOX15
Binding Specificity:	AA 1-225
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALOX15 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Arachidonate 15-lipoxygenase protein (1-225AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	ALOX15
Alternative Name:	ALOX15 (ALOX15 Products)
Background:	Background: Non-heme iron-containing dioxygenase that catalyzes the stereo-specific peroxidation of free and esterified polyunsaturated fatty acids generating a spectrum of

Target Details

bioactive lipid mediators. Converts arachidonic acid into 12-hydroperoxyeicosatetraenoic acid/12-HPETE and 15-hydroperoxyeicosatetraenoic acid/15-HPETE. Also converts linoleic acid to 13-hydroperoxyoctadecadienoic acid. May also act on (12S)-hydroperoxyeicosatetraenoic acid/(12S)-HPETE to produce hepoxilin A3. Probably plays an important role in the immune and inflammatory responses. Through the oxygenation of membrane-bound phosphatidylethanolamine in macrophages may favor clearance of apoptotic cells during inflammation by resident macrophages and prevent an autoimmune response associated with the clearance of apoptotic cells by inflammatory monocytes. In parallel, may regulate actin polymerization which is crucial for several biological processes, including macrophage function. May also regulate macrophage function through regulation of the peroxisome proliferator activated receptor signaling pathway. Finally, it is also involved in the cellular response to IL13/interleukin-13. In addition to its role in the immune and inflammatory responses, may play a role in epithelial wound healing in the cornea maybe through production of lipoxin A4. May also play a role in endoplasmic reticulum stress response and the regulation of bone mass.

Aliases: 15 lipoxygenase 1 antibody, 15 LIPOXYGENASE RETICULOCYTE ARACHIDONATE antibody, 15 LOX antibody, 15 LOX 1 antibody, 15-LOX antibody, 15LOX 1 antibody, ALOX15 antibody, Arachidonate 15 lipoxygenase antibody, Arachidonate 15-lipoxygenase antibody, Arachidonate omega 6 lipoxygenase antibody, Arachidonate omega-6 lipoxygenase antibody, LOG15 antibody, LOX15_HUMAN antibody

UniProt: [P16050](#)

Pathways: [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

Handling

handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.