ARG55210
anti-12 Lipoxygenase antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes 12 Lipoxygenase
Tested Reactivity	Hu, Ms, Rb
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	12 Lipoxygenase
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 618-650 (C-terminus) of Human 12 Lipoxygenase.
Conjugation	Un-conjugated
Alternate Names	EC 1.13.11.31; Platelet-type lipoxygenase 12; 12S-LOX; 12-LOX; 12S-lipoxygenase; Arachidonate 12-lipoxygenase, 12S-type; EC 3.3.2.-; LOG12; Lipoxin synthase 12-LO

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:50
ICC/IF	1:100
IHC-P	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: K562

Properties

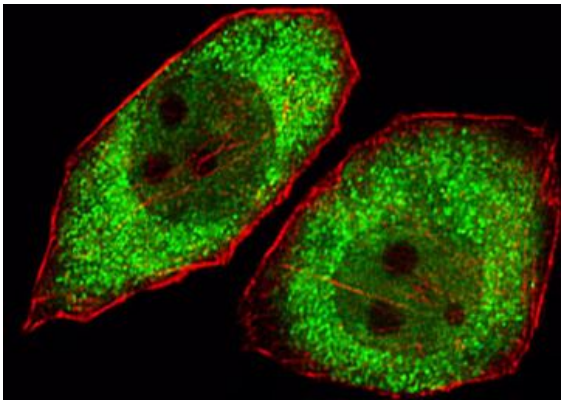
Form	Liquid
Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

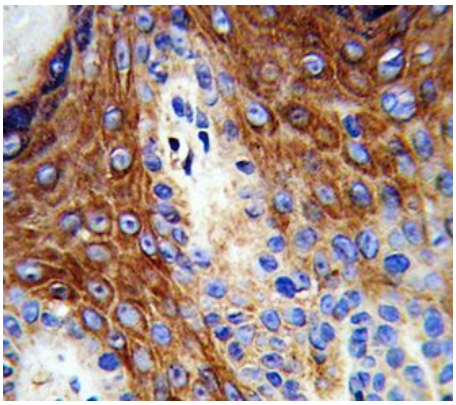
Database links	GeneID: 11684 Mouse GeneID: 239 Human Swiss-port # P18054 Human Swiss-port # P39655 Mouse
Gene Symbol	ALOX12
Gene Full Name	arachidonate 12-lipoxygenase
Function	Non-heme iron-containing dioxygenase that catalyzes the stereo-specific peroxidation of free and esterified polyunsaturated fatty acids generating a spectrum of bioactive lipid mediators. Mainly converts arachidonic acid to (12S)-hydroperoxyeicosatetraenoic acid/(12S)-HPETE but can also metabolize linoleic acid. Has a dual activity since it also converts leukotriene A4/LTA4 into both the bioactive lipoxin A4/LXA4 and lipoxin B4/LXB4. Through the production of specific bioactive lipids like (12S)-HPETE it regulates different biological processes including platelet activation. It also probably positively regulates angiogenesis through regulation of the expression of the vascular endothelial growth factor. Plays a role in apoptotic process, promoting the survival of vascular smooth muscle cells for instance. May also play a role in the control of cell migration and proliferation. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	76 kDa
Cellular Localization	Cytoplasm, cytosol. Membrane. Note=Membrane association is stimulated by EGF

Images



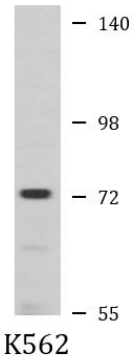
ARG55210 anti-12 Lipoxygenase antibody ICC/IF image

Immunofluorescence: A549 cells stained with ARG55210 anti-12 Lipoxygenase antibody (green) at 1:100 dilution. Cytoplasmic actin was counterstained with Dylight Fluor® 554 conjugated Phalloidin (red).



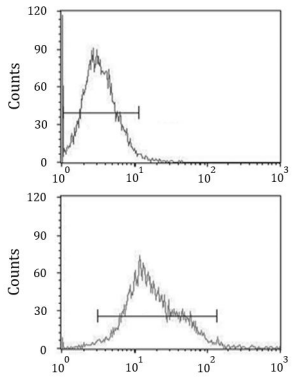
ARG55210 anti-12 Lipoxygenase antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human skin tissue stained with ARG55210 anti-12 Lipoxygenase antibody.



ARG55210 anti-12 Lipoxygenase antibody WB image

Western blot: 35 µg of K562 cell lysate stained with ARG55210 anti-12 Lipoxygenase antibody.



ARG55210 anti-12 Lipoxygenase antibody FACS image

Flow Cytometry: K562 cells stained with ARG55210 anti-12 Lipoxygenase antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.