

Datasheet for ABIN7144528
anti-ALOX12 antibody (AA 508-658)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	ALOX12
Binding Specificity:	AA 508-658
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALOX12 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA

Product Details

Immunogen:	Recombinant Human Arachidonate 12-lipoxygenase, 12S-type protein (508-658AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	ALOX12
Alternative Name:	ALOX12 (ALOX12 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. 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.

Aliases: 12 LOX antibody, 12(S) lipoxygenase antibody, 12-lipoxygenase antibody, 12LO antibody, 12S LOX antibody, 12S-lipoxygenase antibody, 12S-LOX antibody, 12S-type antibody, Alox12 antibody, Arachidonate 12 lipoxygenase antibody, Arachidonate 12 lipoxygenase, 12S type antibody, Arachidonate 12-lipoxygenase antibody, Arachidonate 12-oxidoreductase antibody, Lipoxin synthase 12-LO antibody, LOG12 antibody, LOX12_HUMAN antibody, P-12LO antibody, Platelet 12-LOX antibody, Platelet type lipoxygenase 12 antibody, platelet-type 12-lipoxygenase antibody, Platelet-type lipoxygenase 12 antibody

UniProt: [P18054](#)

Pathways: [Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:500-1:1000, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

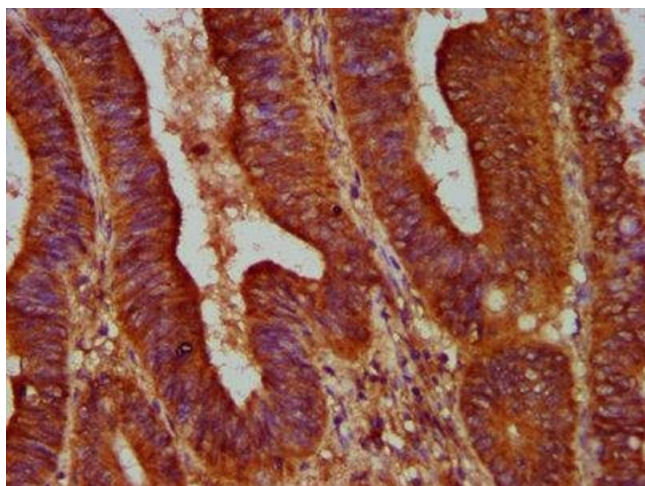
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

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

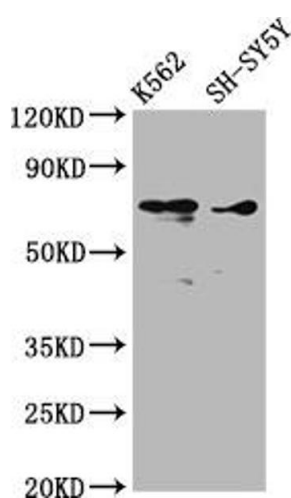
Storage: -20 °C,-80 °C

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



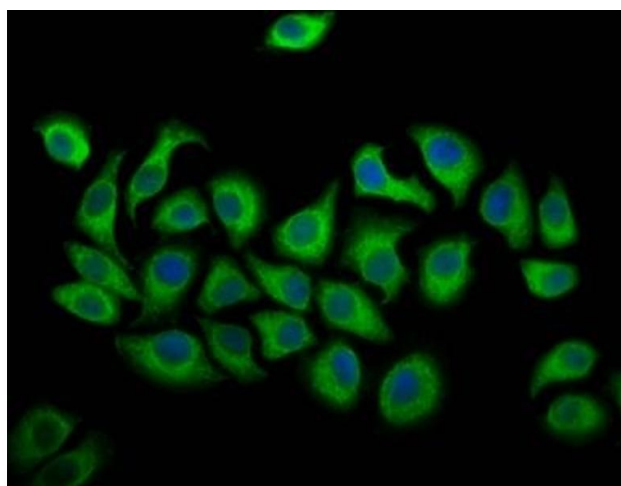
Immunohistochemistry

Image 1. IHC image of ABIN7144528 diluted at 1:500 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: K562 whole cell lysate, SH-SY5Y whole cell lysate. All lanes: ALOX12 antibody at 3.53 µg/mL. Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 76 kDa. Observed band size: 76 kDa.



Immunofluorescence

Image 3. Immunofluorescence staining of A549 cells with ABIN7144528 at 1:166, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7144528.