Datasheet for ABIN7144538

# anti-ALOX15 antibody (AA 1-225)

2 Images

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## Overview

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| Quantity: | 100 µL |
| Target: | ALOX15 |
| Binding Specificity: | AA 1-225 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ALOX15 antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF) |

## Product Details

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

## Target Details

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| 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

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| | 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.<br>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

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| Application Notes: | Recommended dilution: IHC:1:200-1:500, IF:1:50-1:200, |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | Preservative: 0.03 % Proclin 300<br>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

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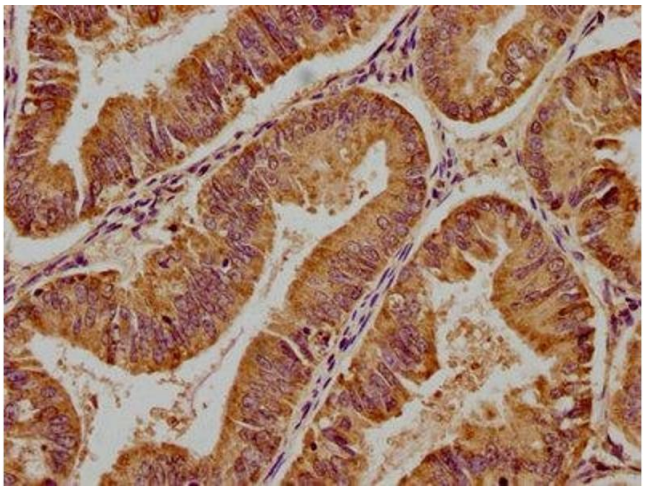
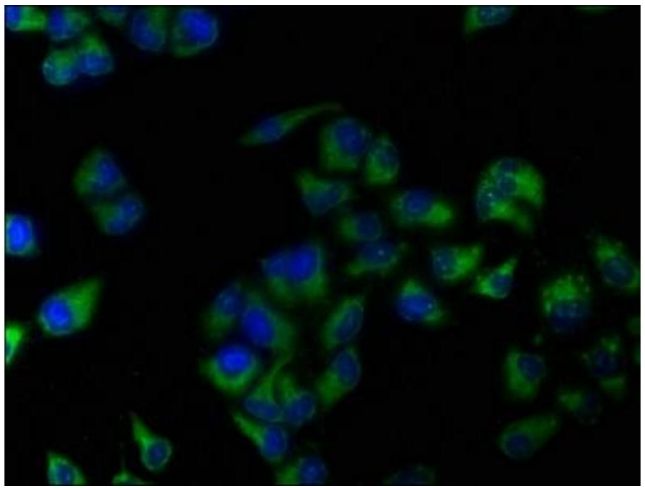
| | handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

## Images



**Immunohistochemistry**

**Image 1.** IHC image of ABIN7144538 diluted at 1:400 and staining in paraffin-embedded human endometrial cancer performed on a Leica BondTM 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 30 min 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.



**Immunofluorescence**

**Image 2.** Immunofluorescence staining of Hela cells with ABIN7144538 at 1:133, 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-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).