

## Rabbit anti-Human ALOX12 Polyclonal Antibody | anti-ALOX12 antibody

ALOX12 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                  |
|-----------|--------|------------|---------------------------------------------------------------|
| AAA234757 | Rabbit | Human      | Immunofluorescence, Immunohistochemistry, Western Blot, ELISA |

### PRODUCT SYNONYMS

ALOX12; Polyclonal Antibody; ALOX12 Antibody; Arachidonate 12-lipoxygenase; 12S-type; 12S-LOX; 12S-lipoxygenase; Lipoxin synthase 12-LO; Platelet-type lipoxygenase 12; 12LO; LOG12; anti-ALOX12 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                  |
|--------------------------------------------------|----------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                           |
| Reactivity                                       | Human                                                                            |
| Clonality                                        | Polyclonal                                                                       |
| Isotype                                          | IgG                                                                              |
| Purity/Purification                              | >95%, Protein G purified                                                         |
| Form/Format                                      | Liquid                                                                           |
| Sequence Length                                  | 663                                                                              |
| Applicable Applications for anti-ALOX12 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA    |
| Immunogen                                        | Recombinant Human Arachidonate 12-lipoxygenase, 12S-type protein (508-658AA)     |
| Conjugation                                      | Non-conjugated                                                                   |
| Buffer                                           | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, pH 7.4 |
| Preparation and Storage                          | Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.      |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence staining of A549 cells with AAA234757 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 degree C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



#### IHC (Immunohistochemistry)

IHC image of AAA234757 diluted at 1:500 and staining in paraffin-embedded human skeletal muscle tissue performed on a Leica Bond<sup>TM</sup> 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 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



#### IHC (Immunohistochemistry)

IHC image of AAA234757 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 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



#### WB (Western Blot)

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

## ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-ALOX12 antibody</b> | 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. |
| <b>Product Categories/Family for anti-ALOX12 antibody</b>   | Cancer; Cardiovascular; Metabolism; Signal transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## NCBI AND UNIPROT INFORMATION

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI GI #                        | 154426292                              |
| NCBI GeneID                      | 239                                    |
| NCBI Accession #                 | NP_000688.2                            |
| NCBI GenBank Nucleotide #        | NM_000697.2                            |
| UniProt Accession #              | P18054; O95569; Q6ISF8; Q9UQM4         |
| Molecular Weight                 | 75,694 Da                              |
| NCBI Official Full Name          | arachidonate 12-lipoxygenase, 12S-type |
| NCBI Official Synonym Full Names | arachidonate 12-lipoxygenase, 12S type |
| NCBI Official Symbol             | ALOX12                                 |
| NCBI Official Synonym Symbols    | LOG12; 12-LOX; 12S-LOX                 |
| NCBI Protein Information         | arachidonate 12-lipoxygenase, 12S-type |
| UniProt Protein Name             | Arachidonate 12-lipoxygenase, 12S-type |
| UniProt Gene Name                | <b>ALOX12</b>                          |
| UniProt Synonym Gene Names       | 12LO; LOG12; 12S-LOX; 12S-lipoxygenase |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/alox12-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/234757>