

## Rabbit anti-Human ALOX5AP Polyclonal Antibody | anti-ALOX5AP antibody

Anti-ALOX5AP Antibody Picoband

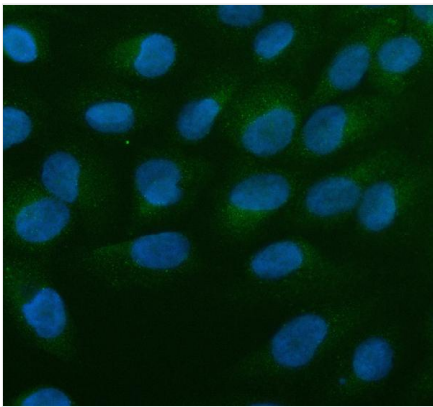
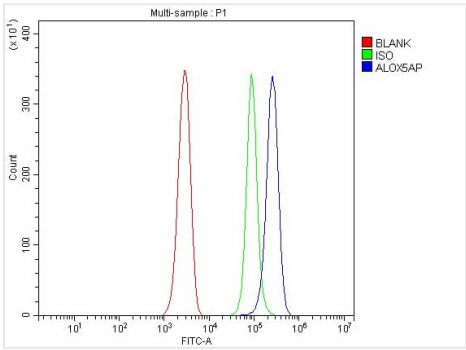
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                            |
|-----------|--------|------------|-----------------------------------------------------------------------------------------|
| AAA127106 | Rabbit | Human      | Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot |

### PRODUCT SYNONYMS

ALOX5AP; Polyclonal Antibody; Anti-ALOX5AP Antibody Picoband; Arachidonate 5-lipoxygenase-activating protein; arachidonate 5-lipoxygenase activating protein; FLAP; MK-886-binding protein; anti-ALOX5AP antibody

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                                                                                                                |
| Reactivity                                        | Human                                                                                                                                                                                                                 |
| Clonality                                         | Polyclonal                                                                                                                                                                                                            |
| Isotype                                           | Rabbit IgG                                                                                                                                                                                                            |
| Purity/Purification                               | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                       | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-ALOX5AP antibody | FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)                                                                                                                      |
| Immunogen                                         | A synthetic peptide corresponding to a sequence in the middle region of human ALOX5AP, identical to the related mouse and rat sequences.                                                                              |
| Reconstitution                                    | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Cross Reactivity                                  | No cross-reactivity with other proteins                                                                                                                                                                               |
| Preparation and Storage                           | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |

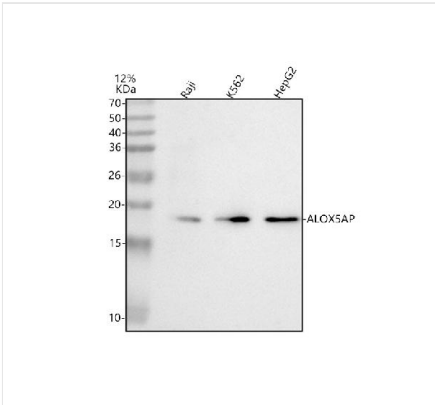


FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of JK cells using anti-ALOX5AP antibody (AAA127106).Overlay histogram showing JK cells stained with AAA127106 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ALOX5AP Antibody (AAA127106, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

IF (Immunofluorescence)

Figure 2. IF analysis of ALOX5AP using anti-ALOX5AP antibody (AAA127106).ALOX5AP was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-ALOX5AP Antibody (AAA127106) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of ALOX5AP using anti-ALOX5AP antibody (AAA127106).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Raji whole cell lysates,Lane 2: human K562 whole cell lysates,Lane 3: human HepG2 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ALOX5AP antigen affinity purified polyclonal antibody (#AAA127106) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ALOX5AP at approximately 18 kDa. The expected band size for ALOX5AP is at 18 kDa.

ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ALOX5AP antibody | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Product Categories/Family for anti-ALOX5AP antibody   | Primary Antibodies                                                                                                                                                                                                                                                                |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | <p>1. Dixon, R. A. F., Diehl, R. E., Opas, E., Rands, E., Vickers, P. J., Evans, J. F., Gillard, J. W., Miller, D. K. Requirement of a 5-lipoxygenase-activating protein for leukotriene synthesis. Nature 343: 282-284, 1990.</p> <p>2. Ferguson, A. D., McKeever, B. M., Xu, S., Wisniewski, D., Miller, D. K., Yamin, T.-T., Spencer, R. H., Chu, L., Ujjainwalla, F., Cunningham, B. R., Evans, J. F., Becker, J. W. Crystal structure of inhibitor-bound human 5-lipoxygenase-activating protein. Science 317: 510-512, 2007.</p> <p>3. Kennedy, B. P., Diehl, R. E., Boie, Y., Adam, M., Dixon, R. A. F. Gene characterization and promoter analysis of the human 5-lipoxygenase-activating protein (FLAP). J. Biol. Chem. 266: 8511-8516, 1991.</p> |
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### NCBI AND UNIPROT INFORMATION

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| NCBI GI #                        | 324711029                                                              |
| NCBI GeneID                      | 241                                                                    |
| NCBI Accession #                 | NP_001191335.1                                                         |
| NCBI GenBank Nucleotide #        | NM_001204406.1                                                         |
| UniProt Accession #              | P20292; Q5VV04                                                         |
| Molecular Weight                 | 161                                                                    |
| NCBI Official Full Name          | arachidonate 5-lipoxygenase-activating protein isoform 2               |
| NCBI Official Synonym Full Names | arachidonate 5-lipoxygenase-activating protein                         |
| NCBI Official Symbol             | ALOX5AP                                                                |
| NCBI Official Synonym Symbols    | FLAP                                                                   |
| NCBI Protein Information         | arachidonate 5-lipoxygenase-activating protein; MK-886-binding protein |
| UniProt Protein Name             | Arachidonate 5-lipoxygenase-activating protein                         |
| UniProt Gene Name                | <b>ALOX5AP</b>                                                         |
| UniProt Synonym Gene Names       | FLAP                                                                   |
| UniProt Entry Name               | AL5AP_HUMAN                                                            |

**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.