

## Rat Arachidonate 15 Lipoxygenase (ALOX15/LOG15) ELISA Kit | ALOX15/LOG15 elisa kit

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CATALOG #  
**AAA247280**

REACTIVITY  
**Rat**

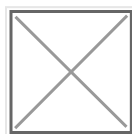
### PRODUCT SYNONYMS

Arachidonate 15 Lipoxygenase (ALOX15/LOG15); Rat Arachidonate 15 Lipoxygenase (ALOX15/LOG15) ELISA Kit; ALOX15/LOG15 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                            |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of ALOX15. No significant cross-reactivity or interference between ALOX15 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ALOX15 and all the analogues, therefore, cross reaction may still exist in some cases. |
| Sequence Length         | 662                                                                                                                                                                                                                                                                                                                                                                                            |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                       |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                                     |
| Sensitivity             | 0.1 ng/mL                                                                                                                                                                                                                                                                                                                                                                                      |
| Reactivity Note         | No significant cross-reactivity or interference between this antigen and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection, therefore, cross reaction may still exist in some cases.                                                                                                                   |
| Preparation and Storage | Store at 2-8 degree C.<br>The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.                                                                                                                                                                                           |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ALOX15/LOG15 elisa kit | <p>Principle of the Assay: ALOX15 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-ALOX15 antibody and an ALOX15-HRP conjugate. The assay sample and buffer are incubated together with ALOX15-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ALOX15 concentration since ALOX15 from samples and ALOX15-HRP conjugate compete for the anti-ALOX15 antibody binding site. Since the number of sites is limited, as more sites are occupied by ALOX15 from the sample, fewer sites are left to bind ALOX15-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ALOX15 concentration in each sample is interpolated from this standard curve.</p> <p>Intended Uses: This ALOX15 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat ALOX15. This ELISA kit for research use only, not for therapeutic or test applications!</p> |
| Product Categories/Family for ALOX15/LOG15 elisa kit   | Metabolism; Signal Transduction; Cardiovascular; Cancer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI GI #                        | 40316937                               |
| NCBI GeneID                      | 246                                    |
| NCBI Accession #                 | NP_001131.3                            |
| NCBI GenBank Nucleotide #        | NM_001140.4                            |
| UniProt Accession #              | P16050; Q8N6R7; Q99657; A8K2P4; B7ZA11 |
| Molecular Weight                 | 70,108 Da                              |
| NCBI Official Full Name          | arachidonate 15-lipoxygenase           |
| NCBI Official Synonym Full Names | arachidonate 15-lipoxygenase           |
| NCBI Official Symbol             | ALOX15                                 |
| NCBI Official Synonym Symbols    | LOG15; 12-LOX; 15-LOX; 15-LOX-1        |
| NCBI Protein Information         | arachidonate 15-lipoxygenase           |
| UniProt Protein Name             | Arachidonate 15-lipoxygenase           |
| UniProt Gene Name                | ALOX15                                 |
| UniProt Synonym Gene Names       | LOG15; 15-LOX; 15-LOX-1; 12-LOX        |

**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/rat-elisa-kits/arachidonate-15-lipoxygenase-alox15-log15/247280>