

Mouse Arachidonate-12-Lipoxygenase (ALOX12) ELISA Kit | ALOX12 elisa kit

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CATALOG #
AAA151276

REACTIVITY
Mouse

PRODUCT SYNONYMS

Arachidonate-12-Lipoxygenase (ALOX12); Mouse Arachidonate-12-Lipoxygenase (ALOX12) ELISA Kit; ALOX12/Arachidonate-12-Lipoxygenase; LOX12; 12-LOX; ALOX-12; 12-LO; 12LPG; LOG12; Lipoxygenase 12; 12S-lipoxygenase; Lipoxin synthase 12-LO; Platelet-type lipoxygenase 12; ALOX12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of ALOX12. No significant cross-reactivity or interference between ALOX12 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Mouse tissue homogenates, cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.113ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ALOX12 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ALOX12 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term(within shelf life) Shelf Life: 8 months 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.To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

ADDITIONAL INFORMATION

Related Product Information for ALOX12 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ALOX12. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to ALOX12. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ALOX12, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of ALOX12 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ALOX12 in mouse tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for ALOX12 elisa kit	Enzyme & Kinase; Metabolic pathway; Neuro science; Developmental science

NCBI AND UNIPROT INFORMATION

NCBI GI #	31542127
NCBI GeneID	11684
NCBI Accession #	NP_031466.2
NCBI GenBank Nucleotide #	NM_007440.4
UniProt Accession #	P39655; Q8BHG4
Molecular Weight	75,390 Da
NCBI Official Full Name	arachidonate 12-lipoxygenase, 12S-type
NCBI Official Synonym Full Names	arachidonate 12-lipoxygenase
NCBI Official Symbol	Alox12
NCBI Official Synonym Symbols	P-12LO; Alox12p; 9930022G08Rik
NCBI Protein Information	arachidonate 12-lipoxygenase, 12S-type; 12S-LOX; 12S-lipoxygenase; lipoxin synthase 12-LO; platelet-type lipoxygenase 12
UniProt Protein Name	Arachidonate 12-lipoxygenase, 12S-type
UniProt Gene Name	Alox12
UniProt Synonym Gene Names	Alox12p; 12S-LOX; 12S-lipoxygenase; P-12LO
UniProt Entry Name	LOX12_MOUSE

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://www.aaabiotech.com/mouse-elisa-kits/arachidonate-12-lipoxygenase-alox12/151276>