

Human 12-LO (Arachidonate 12-Lipoxygenase) CLIA Kit | 12-LO clia kit

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CATALOG #
AAA171176

REACTIVITY
Human

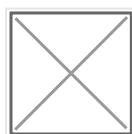
PRODUCT SYNONYMS

12-LO (Arachidonate 12-Lipoxygenase); Human 12-LO (Arachidonate 12-Lipoxygenase) CLIA Kit; ALOX12; LOX12; 12-LOX; 12LPG; LOG12; 12-LO clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This kit recognizes Human 12-LO in samples. No significant cross-reactivity or interference between Human 12-LO and analogues was observed.
Sequence Length	112
Samples	Serum, plasma and other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	62.5-4000pg/mL
Sensitivity	37.5pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Human 12-LO were tested 20 times on one plate, respectively.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Human 12-LO were tested on 3 different plates, 20 replicates in each plate.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for 12-LO clia kit

Intended Uses: This CLIA kit applies to the in vitro quantitative determination of Human 12-LO concentrations in serum, plasma and other biological fluids.

Principle of the Assay: This CLIA kit uses the Sandwich- CLIA principle. The micro CLIA plate provided in this kit has been pre-coated with an antibody specific to Human 12-LO. Standards or samples are added to the micro CLIA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Human 12-LO and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Human 12-LO, biotinylated detection antibody and Avidin-HRP conjugate will appear fluorescence. The Relative light unit (RLU) value is measured by the Chemiluminescence immunoassay analyzer. The RLU value is positively associated with the concentration of Human 12-LO. You can calculate the concentration of Human 12-LO in the samples by comparing the RLU value of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	219393
NCBI GeneID	239
Molecular Weight	75,694 Da
NCBI Official Full Name	arachidonate 12-lipoxygenase, partial
NCBI Official Synonym Full Names	arachidonate 12-lipoxygenase
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	ALOX12
UniProt Synonym Gene Names	12LO; LOG12; 12S-LOX; 12S-lipoxygenase
UniProt Entry Name	LOX12_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.

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Online datasheet: <https://stage.aaabiotech.com/human-clia-kits/12-lo-arachidonate-12-lipoxygenase/171176>