

Human Lactoperoxidase (LPO) ELISA Kit | LPO elisa kit

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CATALOG #
AAA67085

REACTIVITY
Human

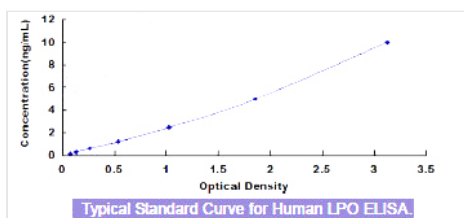
PRODUCT SYNONYMS

Lactoperoxidase (LPO); Human Lactoperoxidase (LPO) ELISA Kit; SPO; LPO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of LPO. No significant cross-reactivity or interference between LPO and analogues was observed.
Sequence Length	629
Samples	Breast milk, tears and other biological fluids.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.057ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LPO 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 LPO were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LPO elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of LPO in human tear, breast milk and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to LPO. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to LPO. 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 LPO, 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 LPO in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	231569458
NCBI GeneID	4025
NCBI Accession #	NP_001153574.1
NCBI GenBank Nucleotide #	NM_001160102.1
UniProt Accession #	P22079; Q13408; Q3KNQ2; A5JUY4; E7EMJ3
Molecular Weight	70,984 Da
NCBI Official Full Name	lactoperoxidase isoform 3 preproprotein
NCBI Official Synonym Full Names	lactoperoxidase
NCBI Official Symbol	LPO
NCBI Official Synonym Symbols	SPO
NCBI Protein Information	lactoperoxidase
UniProt Protein Name	Lactoperoxidase
UniProt Gene Name	LPO
UniProt Synonym Gene Names	SAPX; LPO; SPO

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.