Mouse Lipid Peroxlde (LPO) ELISA Kit

Catalog No: #EK10050

Package Size: #EK10050-1 48T #EK10050-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Mouse Lipid Peroxlde (LPO) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	MGC129990; MGC129991; SPO; salivary peroxidase
Accession No.	P22079
Uniprot	P22079
GeneID	4025;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.059 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LPO in samples. An antibody specific for LPO has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLPO present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LPO is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LPO bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Lactoperoxidase is a peroxidase enzyme found in milk. It is able to form reactive bromine and iodine species, resulting in natural organobromine and organoiodine substances, and can therefore be categorised as a haloperoxidase. It is fairly heat resistant and was widely used as an indicator of overpasteurization of milk.Freshly isolated and purified samples of goat LPO were saturated with ammonium iodide and crystallized using 20% polyethylene glycol 3350 in a hanging drop vapor diffusion setup. Goat LPO consists of a single polypeptide chain of 595 amino acid residues and folds into an oval-shaped structure. The structure contains 20 well-defined alpha-helices of varying lengths including a helix, H(2a), unique to LPO, and two short antiparallel beta-strands.

Note: This product is for in vitro research use only