

Mouse Peroxiredoxin-5, mitochondrial (PRDX5) ELISA Kit



Catalog No: #EK8330

Orders: order@signalwayantibody.com

Package Size: #EK8330-1 48T #EK8330-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Mouse Peroxiredoxin-5, mitochondrial (PRDX5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	ACR1; AOEB166; B166; MGC117264; MGC142283; MGC142285; PLP; PMP20; PRDX6; PRXV; SBB110; Alu co-repressor 1 TPx type VI antioxidant enzyme B166 liver tissue 2D-page spot 71B peroxisomal antioxidant en
Accession No.	P99029
Uniprot	P99029
GeneID	54683;
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:Request Information

Sensitivity:Request Information

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 PRDX5 in samples. An antibody specific for PRDX5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRDX5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRDX5 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 PRDX5 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Peroxiredoxin-5, mitochondrial is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes.

This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution. This gene uses alternate in-frame translation initiation sites to generate mitochondrial or peroxisomal/cytoplasmic forms. Three transcript variants encoding distinct isoforms have been identified for this gene.

Note: This product is for in vitro research use only