

Rat Peroxiredoxin-1 (PRDX1) ELISA Kit

Catalog No: #EK8337



Package Size: #EK8337-1 48T #EK8337-2 96T

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Description

Product Name	Rat Peroxiredoxin-1 (PRDX1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	MSP23; NKEFA; PAG; PAGA; PAGB; PRX1; PRXI; TDPX2; natural killer-enhancing factor A proliferation-associated gene A thioredoxin-dependent peroxide reductase 2
Accession No.	Q63716
Uniprot	Q63716
GenID	117254;
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:0.063 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 PRDX1 in samples. An antibody specific for PRDX1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRDX1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRDX1 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 PRDX1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Peroxiredoxin-1 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 cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Three transcript variants encoding the same protein have been identified for this gene.Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H2O2.

Note: This product is for in vitro research use only