

## Rat Peroxiredoxin 2 (PRDX2) ELISA Kit

Catalog No: #EK8336



Package Size: #EK8336-1 48T #EK8336-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	Rat Peroxiredoxin 2 (PRDX2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	MGC4104; NKEFB; PRP; PRX2; PRXII; TDPX1; TSA; natural killer-enhancing factor B thiol-specific antioxidant 1 thioredoxin peroxidase 1 thioredoxin-dependent peroxide reductase 1 torin
Accession No.	P35704
Uniprot	P35704
GenID	29338;
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 PRDX2 in samples. An antibody specific for PRDX2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRDX2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRDX2 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 PRDX2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Peroxiredoxin-2 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. The crystal structure of this protein has been resolved to 2.7 angstroms. Transcript variants encoding distinct isoforms have been identified for this gene. Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system. It is not able to receive electrons from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism.

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Note: This product is for in vitro research use only