

# Mouse Peroxiredoxin-6 (PRDX6) ELISA Kit

Catalog No: #EK8327



Package Size: #EK8327-1 48T #EK8327-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse Peroxiredoxin-6 (PRDX6) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	1-Cys; AOP2; KIAA0106; MGC46173; NSGPx; PRX; aiPLA2; p29; 1-Cys peroxiredoxin acidic calcium-independent phospholipase A2 antioxidant protein 2 non-selenium glutathione peroxidase
Accession No.	O08709
Uniprot	O08709
GenID	11758;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:78.1-5000 pg/mL

Sensitivity:29 pg/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 PRDX6 in samples. An antibody specific for PRDX6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRDX6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRDX6 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 PRDX6 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Peroxiredoxin-6 is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell; it can reduce H<sub>2</sub>O<sub>2</sub> and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.

Kim et al. (1997) isolated a calcium-independent lysosomal PLA2 from a human myeloblast cell line. The predicted 224-amino acid protein contained the PLA2 catalytic motif, but no other significant homology to known phospholipases. Expressed protein had significant PLA2 activity on several substrates.

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Note: This product is for in vitro research use only