

Datasheet for ABIN5510694  
**Peroxiredoxin 2 ELISA Kit**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	96 tests
Target:	Peroxiredoxin 2 (PRDX2)
Binding Specificity:	AA 2-198
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Peroxiredoxin 2
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO, Immunogen sequence: A2-N198
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Target Details

Target:	Peroxiredoxin 2 (PRDX2)
Alternative Name:	PRDX2 ( <a href="#">PRDX2 Products</a> )
Background:	Protein Function: 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

## Target Details

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 H<sub>2</sub>O<sub>2</sub>.

Background: Peroxiredoxin-2 is a protein that in humans is encoded by the PRDX2 gene. This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. It may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13.

Synonyms: Peroxiredoxin-2,1.11.1.15,Natural killer cell-enhancing factor B,NKEF-B,PRP,Thiol-specific antioxidant protein,TSA,Thioredoxin peroxidase 1,Thioredoxin-dependent peroxide reductase 1,PRDX2,NKEFB, TDPX1,

Full Gene Name: Peroxiredoxin-2

Cellular Localisation: Cytoplasm.

UniProt: [P32119](#)

## Application Details

Plate: Pre-coated

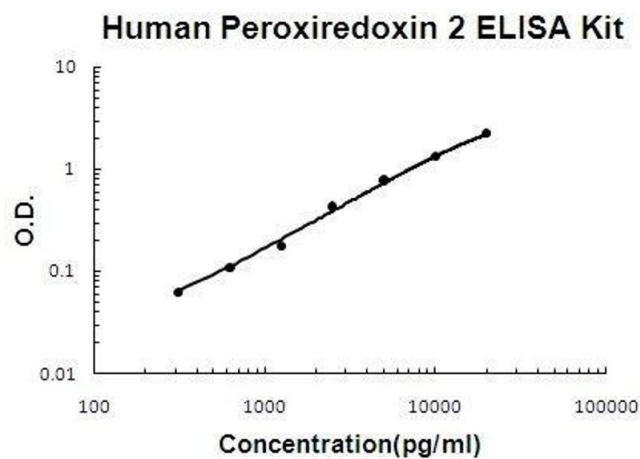
Restrictions: For Research Use only

## Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months



**ELISA**

**Image 1.** Human Peroxiredoxin 2 PicoKine ELISA Kit standard curve