

# **Product datasheet**

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## ARG82038 Human Peroxiredoxin 2 ELISA Kit

Package: 96 wells Store at: 4°C

## Component

Cat. No.	Component Name	Package	Temp
ARG82038-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82038-002	Standard	2 X 20 ng/vial	4°C
ARG82038-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82038-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG82038-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82038-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG82038-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82038-008	25X Wash buffer	20 ml	4°C
ARG82038-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82038-010	STOP solution	10 ml (Ready to use)	4°C
ARG82038-011	Plate sealer	4 strips	Room temperature

#### **Summary**

**Product Description** 

	Human Peroxiredoxin 2 in serum, plasma (heparin, EDTA) and cell culture supernatants.		
Tested Reactivity	Hu		

ARG82038 Human Peroxiredoxin 2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of

Tested Application ELISA

Specificity Cross Reactivity:

Human Recombinant Peroxiredoxin 1: 0.2% Human Recombinant Peroxiredoxin 3: 5.1% Human Recombinant Peroxiredoxin 4: 19.8% Human Recombinant Peroxiredoxin 5: 0.3%

Target Name Peroxiredoxin 2

Conjugation HRP

Conjugation Note Substrate: TMB and read at 450 nm.

Sensitivity 156 pg/ml

Sample Type Serum, plasma (heparin, EDTA) and cell culture supernatants.

Standard Range 312 - 20000 pg/ml

Sample Volume 100 µl

Precision Intra-Assay CV: 5.6%; Inter-Assay CV: 6.6%

Alternate Names EC 1.11.1.15; TPX1; TDPX1; HEL-S-2a; PTX1; Thiol-specific antioxidant protein; PRX2; TSA;

Peroxiredoxin-2; PRP; Thioredoxin-dependent peroxide reductase 1; NKEF-B; NKEFB; Natural killer cell-

enhancing factor B; Thioredoxin peroxidase 1; PRXII

#### **Application Instructions**

Assay Time ~ 5 hours

### **Properties**

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol PRDX2

Gene Full Name peroxiredoxin 2

Background 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. This protein 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. [provided by

RefSeq, Mar 2013]

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 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

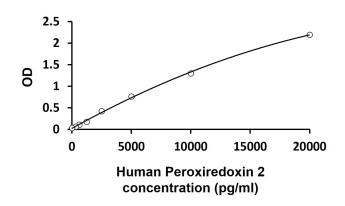
H(2)O(2). [UniProt]

Highlight Related products:

Peroxiredoxin antibodies; Peroxiredoxin ELISA Kits;

New ELISA data calculation tool: Simplify the ELISA analysis by GainData

Cellular Localization Cytoplasm. [UniProt]



## ARG82038 Human Peroxiredoxin 2 ELISA Kit standard curve image

ARG82038 Human Peroxiredoxin 2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.