
Product Name: KO-Validated Peroxiredoxin 2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00092

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 21.9kDa

Antigen Information

Gene Name	PRDX2 PRDX2; Peroxiredoxin 2; NKEFB; PRP; TSA; Thioredoxin-Dependent Peroxide Reductase 1; Thioredoxin Peroxidase 1; PRXII; TDPX1;
Alternative Names	PRX2; Natural Killer Cell-Enhancing Factor B; Thioredoxin-Dependent Peroxiredoxin 2; Thiol-Specific Antioxidant 1; Peroxiredoxin-2; MGC4104; NKEF-B; Torin; Epididymis Secretory Sperm Binding Protein Li 2a; Thiol-Specific Antioxidant Protein; Natural Killer-Enhancing Factor B; EC 1.11.1.24; EC 1.11.1.15; EC 1.11.1; HEL-S-2a; PTX1; TPX1
Gene ID	7001.0
SwissProt ID	P32119
Immunogen	A synthesized peptide derived from human Peroxiredoxin 2

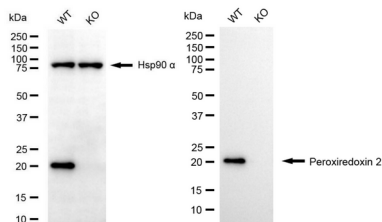
Background

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]

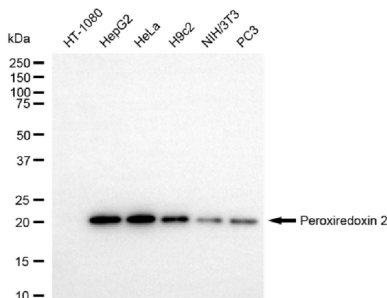
Research Area

Neuroscience, Cell Biology, Cancer

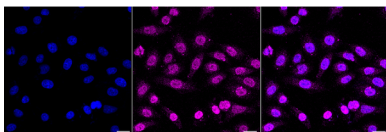
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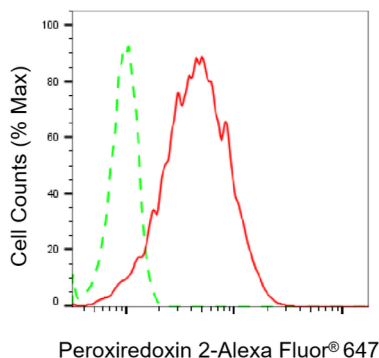
Western blotting analysis using peroxiredoxin 2 antibody (KVA00092). Peroxiredoxin 2 expression in wild type (WT) and peroxiredoxin 2 (PRDX2) knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with peroxiredoxin 2 antibody (KVA00092, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using peroxiredoxin 2 antibody (KVA00092). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with peroxiredoxin 2 antibody (KVA00092, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Peroxiredoxin 2 antibody (KVA00092, 1:1,000). Nuclei were stained blue with DAPI; Peroxiredoxin 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Peroxiredoxin 2 expression in HepG2 cells using Peroxiredoxin 2 antibody (KVA00092, 1:2,000). Green, isotype control; red, Peroxiredoxin 2.