

Product Name: KD-Validated Peroxiredoxin 6 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00964

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,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: 25.0kDa

Antigen Information

Gene Name	PRDX6 Peroxiredoxin 6; AiPLA2; NSGPx; AOP2; KIAA0106; 1-Cys; PRX; P29; Acidic Calcium-Independent Phospholipase A2; Lysophosphatidylcholine Acyltransferase 5; Glutathione-Dependent Peroxiredoxin; Non-Selenium Glutathione Peroxidase; Red Blood Cells Page Spot
Alternative Names	12; Lyso-PC Acyltransferase 5; LPC Acyltransferase 5; Antioxidant Protein 2; Liver 2D Page Spot 40; 1-Cys Peroxiredoxin; Peroxiredoxin-6; 24 KDa Protein; 1-Cys PRX; MGC46173; LPCAT-5; Epididymis Secretory Sperm Binding Protein Li 128m; EC 1.11.1.27; EC 1.11.1.15; EC 2.3.1.23; HEL-S-128m; EC 3.1.1.4
Gene ID	9588.0
SwissProt ID	P30041
Immunogen	A synthesized peptide derived from human PRDX6

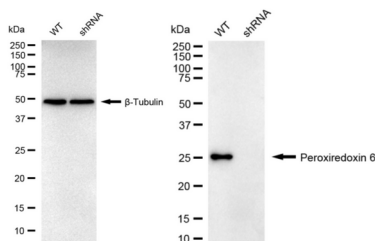
Background

The protein encoded by this gene 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 H₂O₂ 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. [provided by RefSeq, Jul 2008]

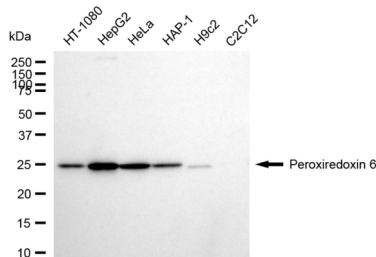
Research Area

Signal Transduction, Cell Biology, Cardiovascular, Cancer, Metabolism

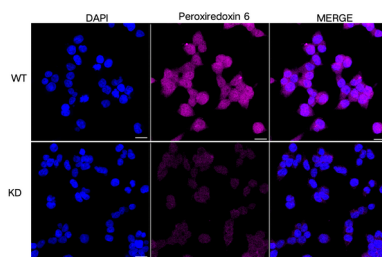
Image Data



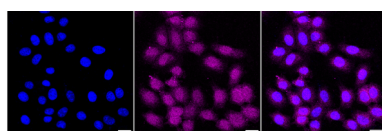
Western blotting analysis using Peroxiredoxin 6 antibody (KVA00964). Peroxiredoxin 6 expression in wild type (WT) and Peroxiredoxin 6 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Peroxiredoxin 6 antibody (KVA00964, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



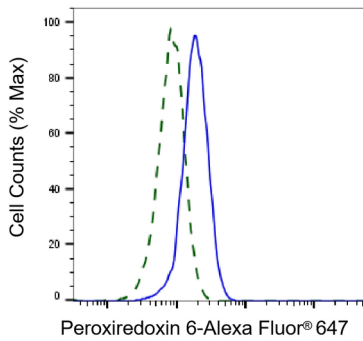
Western blotting analysis using Peroxiredoxin 6 antibody (KVA00964). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Peroxiredoxin 6 antibody (KVA00964, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



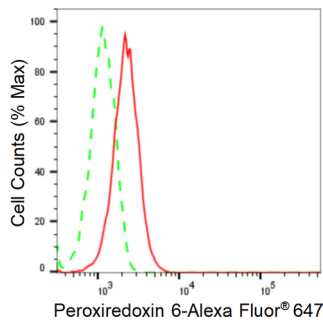
Immunocytochemical staining of HeLa cells using Peroxiredoxin 6 antibody (KVA00964, 1:1,000). Top panel: wild-type (WT); Bottom panel: Peroxiredoxin 6 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Peroxiredoxin 6 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Peroxiredoxin 6 antibody (KVA00964, 1:1,000). Nuclei were stained blue with DAPI; Peroxiredoxin 6 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.



Validation of Peroxiredoxin 6 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Peroxiredoxin 6 antibody (KVA00964, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Peroxiredoxin 6 expression in HepG2 cells using Peroxiredoxin 6 antibody (KVA00964, 1:2,000). Green, isotype control; red, Peroxiredoxin 6.