

Product Name: KD-Validated Peroxiredoxin 5 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00955

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: 22.1kDa

Antigen Information

Gene Name	PRDX5
Alternative Names	Peroxiredoxin 5; AOEB166; ACR1; PLP; Peroxisomal Antioxidant Enzyme; Liver Tissue 2D-Page Spot 71B; Thioredoxin Peroxidase PMP20; Antioxidant Enzyme B166; TPx Type VI; SBB110; PMP20; PRDX6; PRXV; B166; Thioredoxin-Dependent Peroxiredoxin 5; Peroxiredoxin-5, Mitochondrial; Alu Co-Repressor 1; Peroxiredoxin V; MGC142285; MGC117264; MGC142283; Prx-V; Epididymis Secretory Protein Li 55; Thioredoxin Reductase; Alu Corepressor 1; EC 1.11.1.24; EC 1.11.1.15; HEL-S-55
Gene ID	25824.0
SwissProt ID	P30044
Immunogen	A synthesized peptide derived from human Peroxiredoxin 5

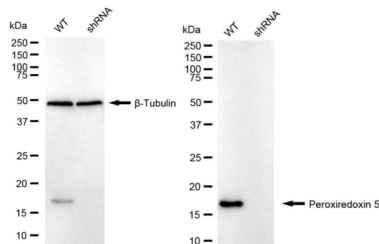
Background

This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein interacts with peroxisome receptor 1 and plays an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. The use of alternate transcription start sites is thought to result in transcript variants that use different in-frame translational start codons to generate isoforms that are targeted to the mitochondrion (isoform L) or peroxisome/cytoplasm (isoform S). Multiple related pseudogenes have been defined for this gene. [provided by RefSeq, Nov 2017]

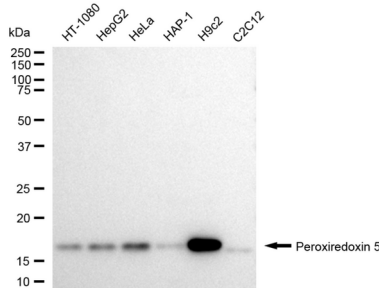
Research Area

Cell Biology

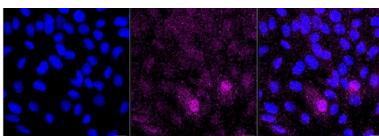
Image Data



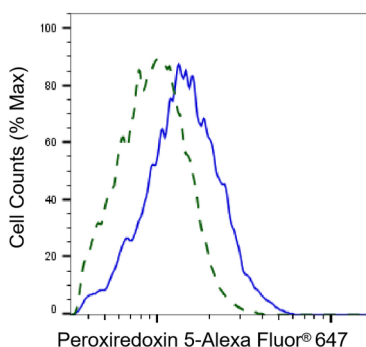
Western blotting analysis using Peroxiredoxin 5 antibody (KVA00955). Peroxiredoxin 5 expression in wild type (WT) and Peroxiredoxin 5 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Peroxiredoxin 5 antibody (KVA00955, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



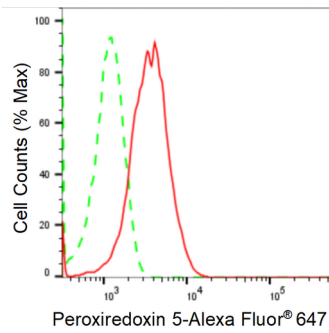
Western blotting analysis using Peroxiredoxin 5 antibody (KVA00955). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Peroxiredoxin 5 antibody (KVA00955, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with Peroxiredoxin 5 antibody (KVA00955, 1:1,000). Nuclei were stained blue with DAPI; Peroxiredoxin 5 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 5 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Peroxiredoxin 5 antibody (KVA00955, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Peroxisome 5 expression in H9c2 cells using Peroxisome 5 antibody (KVA00955, 1:2,000). Green, isotype control; red, Peroxisome 5.