

Anti-Peroxiredoxin 2 Antibody (6A598)

Product Details

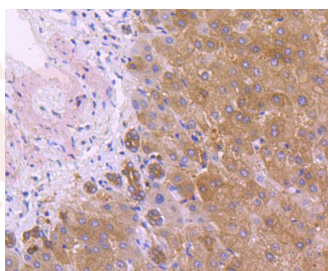
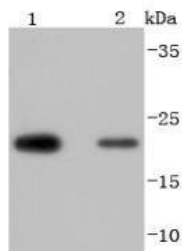
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 22 kDa.
Clone:	6A598
Purification:	ProA affinity purified

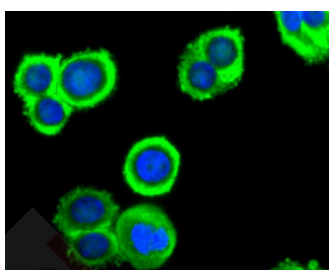
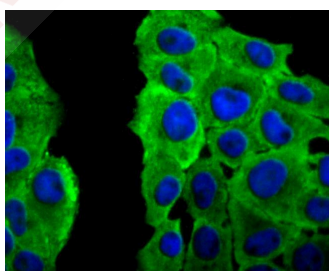
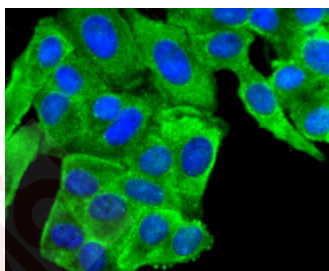
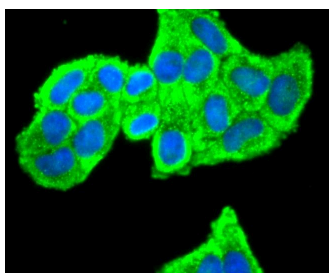
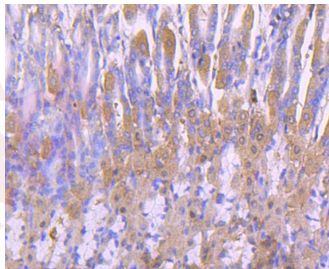
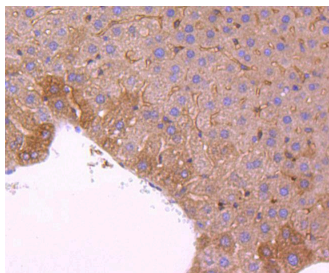
Applications

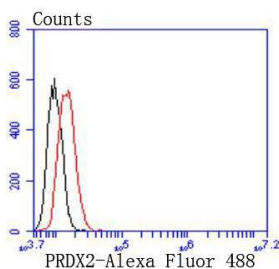
1. Western blot analysis of Peroxiredoxin 2 on different lysates using anti-Peroxiredoxin 2 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela, Lane 2: HepG2.
2. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Peroxiredoxin 2 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-Peroxiredoxin 2 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-Peroxiredoxin 2 antibody. Counter stained with hematoxylin.

Verified Activity:

5. ICC staining Peroxiredoxin 2 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining Peroxiredoxin 2 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining Peroxiredoxin 2 in RH-35 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Peroxiredoxin 2 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. Flow cytometric analysis of Hela cells with Peroxiredoxin 2 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.







Application: FCM,ICC/IF,IHC,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:100-500; FCM: 1:10-50

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P32119

Synonyms: NKEFB;PRX2;TDPX1;HEL-S-2a;TPX1;PTX1;PRP;peroxiredoxin 2;PRXII;NKEF-B;TSA

Research Background

The peroxiredoxin (PRX) family comprises six antioxidant proteins, PRX I, II, III, IV, V and VI, which protect cells from reactive oxygen species (ROS) by preventing the metal-catalyzed oxidation of enzymes. The PRX proteins primarily utilize thioredoxin as the electron donor for antioxidant, although they are fairly promiscuous with regard to the hydroperoxide substrate. In addition to protection from ROS, peroxiredoxins are also involved in cell proliferation, differentiation and gene expression. PRX I, II, IV and VI show diffuse cytoplasmic localization, while PRX III and V exhibit distinct mitochondrial localization. PRX II is expressed in testis, while PRX III shows expression in lung. PRX I, II and III are overexpressed in breast cancer and may be involved in its development or progression. Upregulated protein levels of PRX I and II in Alzheimer's disease (AD) and Down syndrome (DS) indicate the involvement of PRX I and II in their pathogenesis.

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