

GPX7 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22347c

Specification

GPX7 Antibody (Center) - Product Information

Application	IF, WB, IHC-P-Leica, FC,E
Primary Accession	O96SL4
Other Accession	A6QLY2
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	20996

GPX7 Antibody (Center) - Additional Information

Gene ID 2882

Other Names

Glutathione peroxidase 7, GPx-7, GSHPx-7, 1.11.1.9, CL683, GPX7, GPX6

Target/Specificity

This GPX7 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 73-107 amino acids from the Central region of human GPX7.

Dilution

IF~~1:25
WB~~1:2000
IHC-P-Leica~~1:1000
FC~~1:25

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GPX7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GPX7 Antibody (Center) - Protein Information

Name GPX7

Synonyms GPX6

Function It protects esophageal epithelia from hydrogen peroxide- induced oxidative stress. It suppresses acidic bile acid-induced reactive oxygen species (ROS) and protects against oxidative DNA damage and double-strand breaks.

Cellular Location

Secreted.

Tissue Location

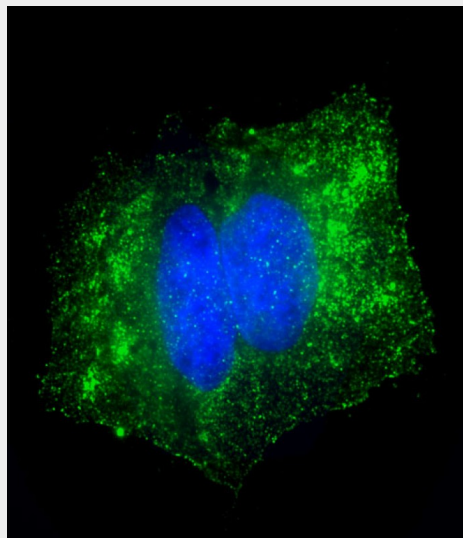
Expressed in esophageal epithelial cells; expression is up-regulated after exposure to acidic bile acids

GPX7 Antibody (Center) - Protocols

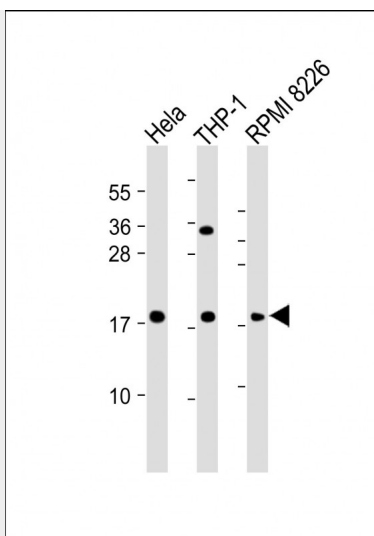
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

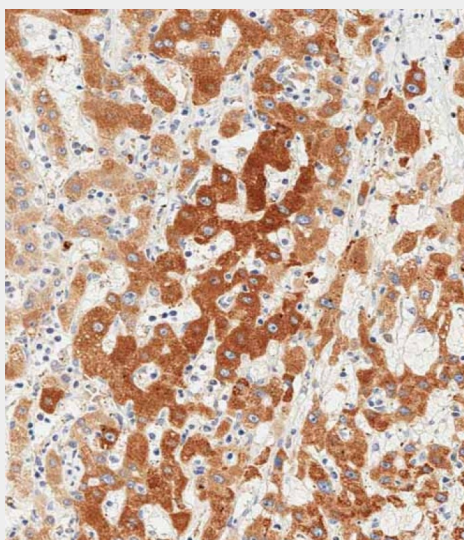
GPX7 Antibody (Center) - Images



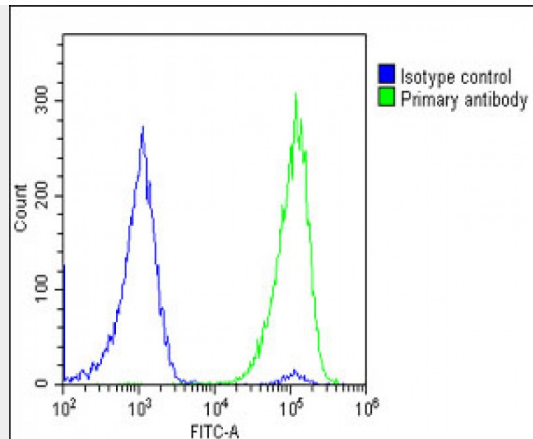
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-2OS cells labeling GPX7 with AP22347c at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG (OH191631) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on U-2OS cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (1186255) at 1/500 dilution (red). The nuclear counter stain is DAPI (blue).



All lanes : Anti-GPX7 Antibody (Center) at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: THP-1 whole cell lysate Lane 3: RPMI 8226 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Immunohistochemical analysis of paraffin-embedded human liver tissue using AP22347c performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:1000) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing U-2 OS cells stained with AP22347c (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22347c, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

GPX7 Antibody (Center) - Background

It protects esophageal epithelia from hydrogen peroxide-induced oxidative stress. It suppresses acidic bile acid-induced reactive oxygen species (ROS) and protects against oxidative DNA damage and double-strand breaks.

GPX7 Antibody (Center) - References

- Gu S., et al. Submitted (NOV-2000) to the EMBL/GenBank/DDBJ databases.
- Clark H.F., et al. Genome Res. 13:2265-2270(2003).
- Ota T., et al. Nat. Genet. 36:40-45(2004).
- Gregory S.G., et al. Nature 441:315-321(2006).
- Barrow I.K.-P., et al. Submitted (AUG-1998) to the EMBL/GenBank/DDBJ databases.