10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPX8 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16753b

Product Information

Application	WB, E
Primary Accession	Q8TED1
Other Accession	NP_001008398.2
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36510
Calculated MW	23881
Antigen Region	164-193

Additional Information

Gene ID	493869
Other Names	Probable glutathione peroxidase 8, GPx-8, GSHPx-8, GPX8
Target/Specificity	This GPX8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 164-193 amino acids from the C-terminal region of human GPX8.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	GPX8 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GPX8
Function	Acts as an endoplasmic reticulum (ER) thiol peroxidase that maintains ER redox homeostasis and protects the cytosol from ER-derived H(2)O(2)(PubMed:24566470, PubMed:32719007). Functions in a redox relay

	with ERO1A, using ERO1A-generated H(2)O(2) to drive PDI oxidation, linking peroxide detoxification to productive disulfide formation (PubMed:21215271). Modulates endoplasmic reticulum Ca(2+) levels mainly through SERCA pump activity and partially by influencing passive Ca(2+) leakage (PubMed:28129698).
Cellular Location	Endoplasmic reticulum membrane. Note=Also enriched in mitochondria-associated membranes (MAM).

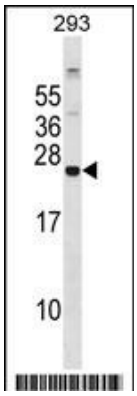
Background

GPX8 belongs to the glutathione peroxidase family. Glutathione peroxidase is an enzyme whose principal function is to protect against damage from endogenously-formed hydroxyperoxides, catalysing the reduction of hydroxyperoxides by glutathione. Several forms of the enzyme are known. It has a catalytic activity of 2 glutathione + H2O2 = glutathione disulfide + 2 H2O.

References

Toppo, S., et al. Antioxid. Redox Signal. 10(9):1501-1514(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)

Images



GPX8 Antibody (C-term) (Cat. #AP16753b) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the GPX8 antibody detected the GPX8 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.