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GPX8 Rabbit pAb

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Catalog # AP56208

Product Information

Application	WB
Primary Accession	Q8TED1
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23881
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GPX8
Epitope Specificity	111-209/209
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Glutathione peroxidase (GPx) enzymes are generally selenium-containing tetrameric glycoproteins that help prevent lipid peroxidation of cell membranes. GPx enzymes reduce lipid hydroperoxides to alcohols, and reduce free hydrogen peroxide to water. GPx members are among the few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by the nonsense (stop) codon TGA. There are eight GPx homologs (GPx-1–8). GPx-8 (glutathione peroxidase 8), also known as GSHPx-8, is a 209 amino acid single-pass membrane protein. The gene encoding GPx-8 maps to human chromosome 5q11.2 and mouse chromosome 13 D2.2.

Additional Information

Gene ID	493869
Other Names	Probable glutathione peroxidase 8, GPx-8, GSHPx-8, 1.11.1.9, GPX8
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

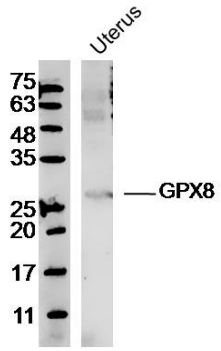
Protein Information

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).

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Images



Sample: Uterus (Mouse) Lysate at 40 ug
Primary: Anti-GPX8 (AP56208) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 24 kD
Observed band size: 26 kD

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