

## Product datasheet for **AP53439PU-N**

### Peroxiredoxin 4 (PRDX4) (Center) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western Blot:</b> 1/100 - 1/500. <b>Immunohistochemistry on paraffin sections:</b> 1/50 - 1/100.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 89-118 amino acids from the Central region of human PRDX4
Specificity:	This antibody reacts to PRDX4.
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	30540 Da
Gene Name:	peroxiredoxin 4
Database Link:	<a href="#">Entrez Gene 53381 Mouse</a> <a href="#">Entrez Gene 10549 Human</a> <a href="#">Q13162</a>



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**Background:**

The protein encoded by this gene is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB.

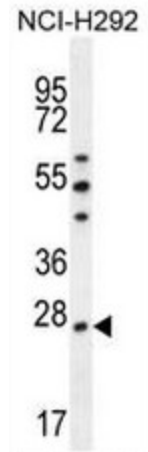
**Synonyms:**

PRDX-4, Prx4, Prx-4, Prx-IV, AOE37-2

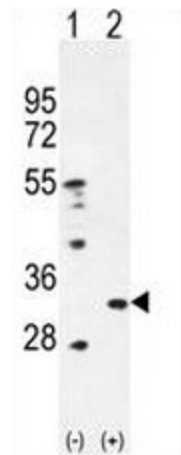
**Protein Families:**

Druggable Genome

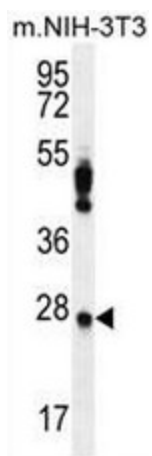
**Product images:**



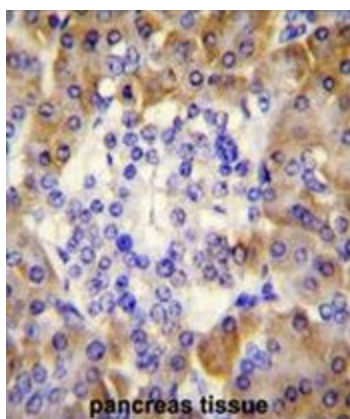
PRDX4 Antibody (Center) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the PRDX4 antibody detected the PRDX4 protein (arrow).



Western blot analysis of PRDX4 (arrow) using rabbit polyclonal PRDX4 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PRDX4 gene.



PRDX4 Antibody (Center) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the PRDX4 antibody detected the PRDX4 protein (arrow).



PRDX4 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PRDX4 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.