

## Product datasheet for **TA307267**

### Peroxiredoxin 6 (PRDX6) Rabbit Monoclonal Antibody [Clone ID: EPR3755]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	EPR3755
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:500 - 1:1000; IP: 1:10; ICC/IF: 1:100 - 1:250
Reactivity:	Mouse, Rat, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues in human Peroxiredoxin 6 was used as an immunogen.
Formulation:	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	25 kDa
Gene Name:	peroxiredoxin 6
Database Link:	<a href="#">NP_004896</a> <a href="#">Entrez Gene 11758 Mouse</a> <a href="#">Entrez Gene 94167 Rat</a> <a href="#">Entrez Gene 9588 Human</a> <a href="#">P30041</a>



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**Background:** Peroxioredoxin 6, a member of the thiol-specific antioxidant protein family (1), is an enzyme that detoxifies hydrogen peroxide and various organic peroxides (2). It is a cytosolic peroxidase that has been demonstrated to protect various tissues, such as skin, lung, and cardiac muscle, against acute oxidative insults (3). Peroxioredoxin 6 has two distinct active sites, and is involved in redox regulation of the cell; it can reduce H<sub>2</sub>O<sub>2</sub> and short chain organic, fatty acid, and phospholipid hydroperoxides (1). Peroxioredoxin 6 has been hypothesized to also protect the liver from oxidative stress generated during the process of chronic ethanol ingestion (3), and may play a role in the regulation of phospholipid turnover (1).

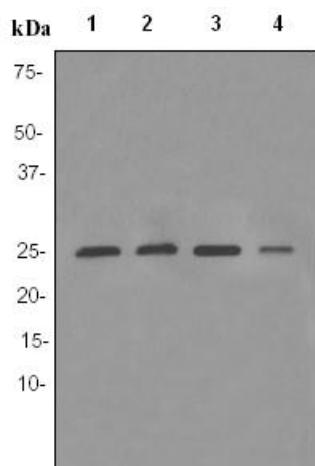
**Synonyms:** 1-Cys; aiPLA2; AOP2; HEL-S-128m; NSGPx; p29; PRX

**Note:** Is unsuitable for Flow Cyt.

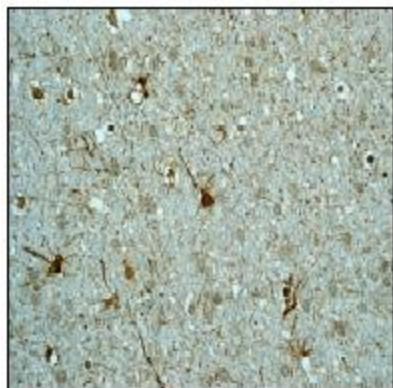
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Methane metabolism, Phenylalanine metabolism

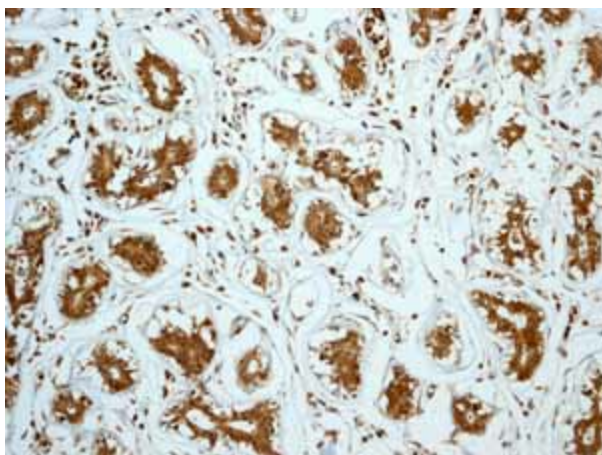
### Product images:



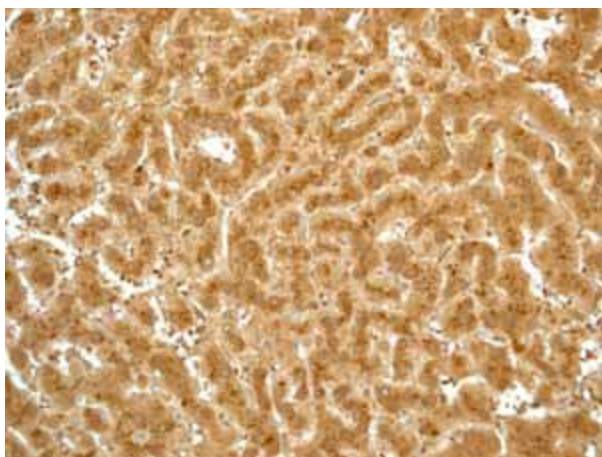
Western blot - Peroxioredoxin 6 antibody [EPR3755]; All lanes : Anti-Peroxioredoxin 6 antibody [EPR3755] at 1/500 dilution. Lane 1 : HeLa cell lysate. Lane 2 : MCF-7 cell lysate. Lane 3 : HepG2 cell lysate. Lane 4 : A549 cell lysate. Lysates/proteins at 10 ug per lane. Secondary. HRP labelled goat anti-rabbit IgG at 1/2000 dilution. Predicted band size : 25 kDa.



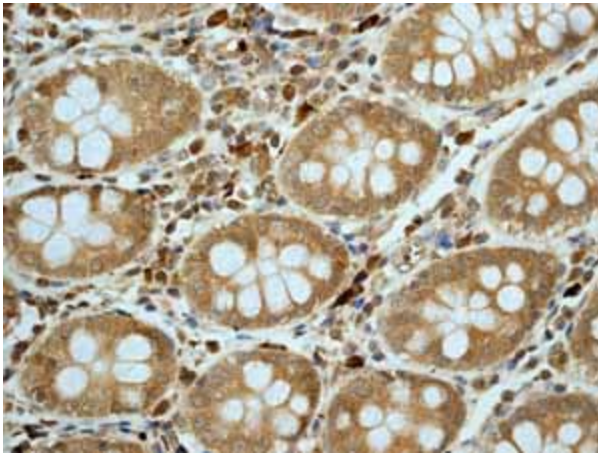
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Peroxiredoxin 6 antibody [EPR3755]; TA307267 at 1/100 dilution, staining Peroxiredoxin 6 in paraffin embedded Human brain tissue



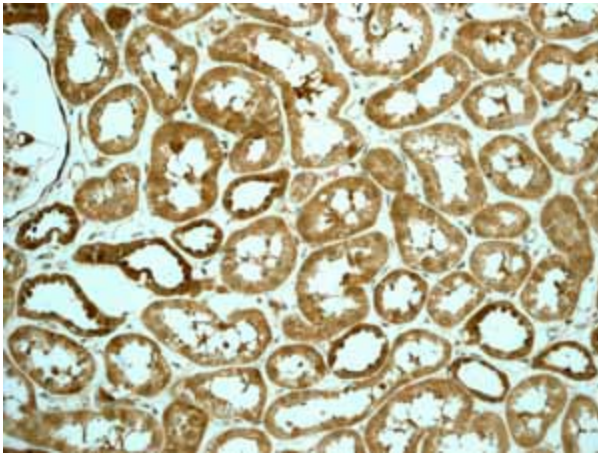
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Peroxiredoxin 6 antibody [EPR3755] (TA307267); TA307267 showing positive staining in Normal breast tissue.



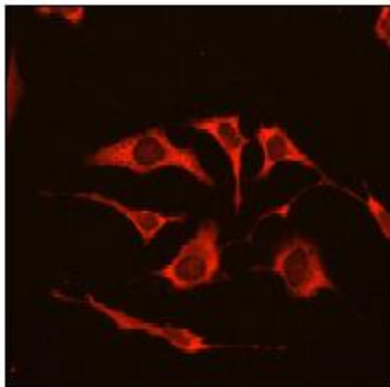
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Peroxiredoxin 6 antibody [EPR3755] (TA307267); TA307267 showing positive staining in Normal liver tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Peroxiredoxin 6 antibody [EPR3755] (TA307267); TA307267 showing positive staining in Normal colon tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Peroxiredoxin 6 antibody [EPR3755] (TA307267); TA307267 showing positive staining in Normal kidney tissue.



Immunocytochemistry/ Immunofluorescence - Peroxiredoxin 6 antibody [EPR3755]; TA307267, staining Peroxiredoxin 6 at 1/100 dilution in HeLa cells