

PRDX5 / Peroxiredoxin 5 Antibody (clone 12A)
Mouse Monoclonal Antibody
Catalog # ALS14438**Specification**

PRDX5 / Peroxiredoxin 5 Antibody (clone 12A) - Product Information

Application	WB, IHC
Primary Accession	P30044
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	22kDa KDa

PRDX5 / Peroxiredoxin 5 Antibody (clone 12A) - Additional Information**Gene ID** 25824**Other Names**

Peroxiredoxin-5, mitochondrial, 1.11.1.15, Alu corepressor 1, Antioxidant enzyme B166, AOEB166, Liver tissue 2D-page spot 71B, PLP, Peroxiredoxin V, Prx-V, Peroxisomal antioxidant enzyme, TPx type VI, Thioredoxin peroxidase PMP20, Thioredoxin reductase, PRDX5, ACR1

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

PRDX5 / Peroxiredoxin 5 Antibody (clone 12A) is for research use only and not for use in diagnostic or therapeutic procedures.

PRDX5 / Peroxiredoxin 5 Antibody (clone 12A) - Protein Information**Name** PRDX5 ([HGNC:9355](#))**Synonyms** ACR1**Function**

Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events.

Cellular Location

[Isoform Mitochondrial]: Mitochondrion

Tissue Location

Widely expressed..

Volume

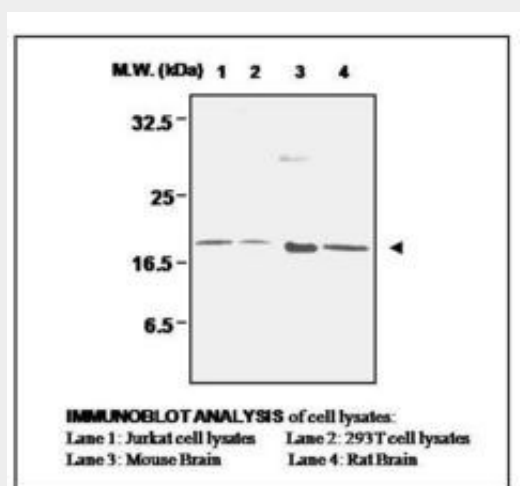
50 µl

PRDX5 / Peroxiredoxin 5 Antibody (clone 12A) - Protocols

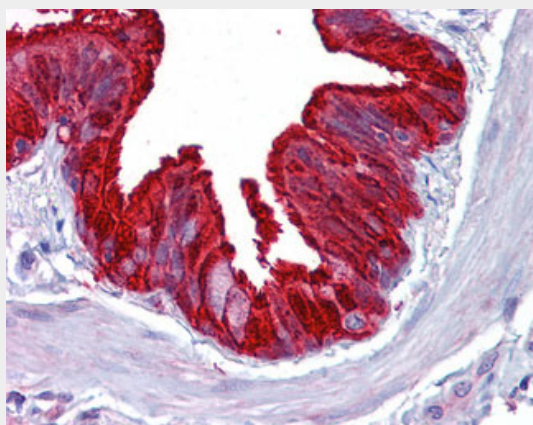
Provided below are standard protocols that you may find useful for product applications.

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

PRDX5 / Peroxiredoxin 5 Antibody (clone 12A) - Images



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Anti-PRDX5 / Peroxiredoxin 5 antibody IHC of human lung, respiratory epithelium.

PRDX5 / Peroxiredoxin 5 Antibody (clone 12A) - Background

Reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. Involved in intracellular redox signaling.

PRDX5 / Peroxiredoxin 5 Antibody (clone 12A) - References

Kropotov A.,et al.Eur. J. Biochem. 260:336-346(1999).
Yamashita H.,et al.J. Biol. Chem. 274:29897-29904(1999).
Knoops B.,et al.J. Biol. Chem. 274:30451-30458(1999).
Zhou Y.,et al.Biochem. Biophys. Res. Commun. 268:921-927(2000).
Seo M.S.,et al.J. Biol. Chem. 275:20346-20354(2000).