

Mouse Anti-Peroxiredoxin 1 antibody

SLM-33118M

Product Name Peroxiredoxin 1

Chinese Name 过氧化还原酶 1 单克隆抗体

Alias Peroxiredoxin-1; Peroxiredoxin 1; Prdx 1; Prdx1; PRDX1_HUMAN; Hbp23; Heme binding 23 kDa protein; Macrophage 23 Kd stress protein; Macrophage 23kDa stress protein; Macrophase stress protein 22kDa; Macrophase stress protein 23 kd; MSP23; Natural killer cell enhancing factor A; Natural killer cell-enhancing factor A; Natural killer enhancing factor A; NKEF A; NKEF-A; NkefA; OSF3; Osteoblast specific factor 3; PAG; Paga; PAGB; Proliferation associated gene A; Proliferation associated protein PAG; Proliferation-associated gene protein; PrxI; Tdpx 2; Tdpx2; TDX2; Thioredoxin dependent peroxide reductase 2; Thioredoxin peroxidase 2; Thioredoxin-dependent peroxide reductase 2; TPxA; Trx dependent peroxide reductase 2.

Research Area Tumour Cell biology immunology

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 10F9

React Species Human,Mouse,Rat

Applications WB=1:500-1000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=0.5ug/Test
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 22kDa

Cellular localization cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen Recombinant human Peroxiredoxin 1 Protein

Lsotype IgG

Purification affinity purified by Protein G

Buffer Solution

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Four transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jan 2011].

Function:

Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H₂O₂. Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation.

Subunit:

Homodimer; disulfide-linked, upon oxidation. May form heterodimers with AOP2. Interacts with GDPD5; forms a mixed-disulfide with GDPD5 (By similarity).

Product Detail

Subcellular Location:

Cytoplasm. Melanosome.

Post-translational modifications:

Phosphorylated on Thr-90 during the M-phase, which leads to a more than 80% decrease in enzymatic activity.

Similarity:

Belongs to the AhpC/TSA family.
Contains 1 thioredoxin domain.

SWISS:

Q06830

Gene ID:

5052

Database links:

[Entrez Gene: 281997](#) Cow

[Entrez Gene: 5052](#) Human

[Entrez Gene: 18477](#) Mouse

[Entrez Gene: 117254](#) Rat

[Omim: 176763](#) Human

[SwissProt: Q9JKY1](#) Chinese Hamster

[SwissProt: Q06830](#) Human

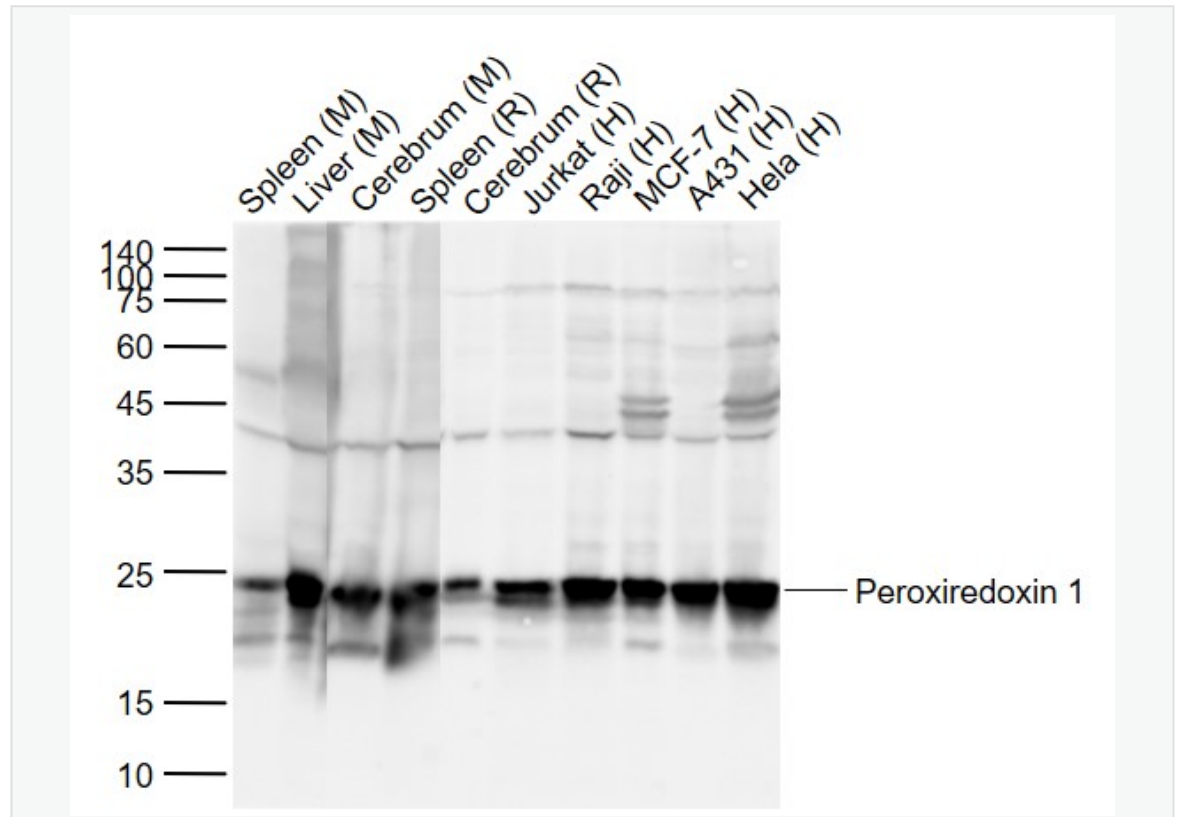
[SwissProt: P35700](#) Mouse

[SwissProt: Q63716](#) Rat

[Unigene: 180909](#) Human

[Unigene: 30929](#) Mouse

[Unigene: 2845](#) Rat



**Product
Picture**

Sample:

Lane 1: Mouse Spleen tissue lysates

Lane 2: Mouse Liver tissue lysates

Lane 3: Mouse Cerebrum tissue lysates

Lane 4: Rat Spleen tissue lysates

Lane 5: Rat Cerebrum tissue lysates

Lane 6: Human Jurkat cell lysates

Lane 7: Human Raji cell lysates

Lane 8: Human MCF-7 cell lysates

Lane 9: Human A431 cell lysates

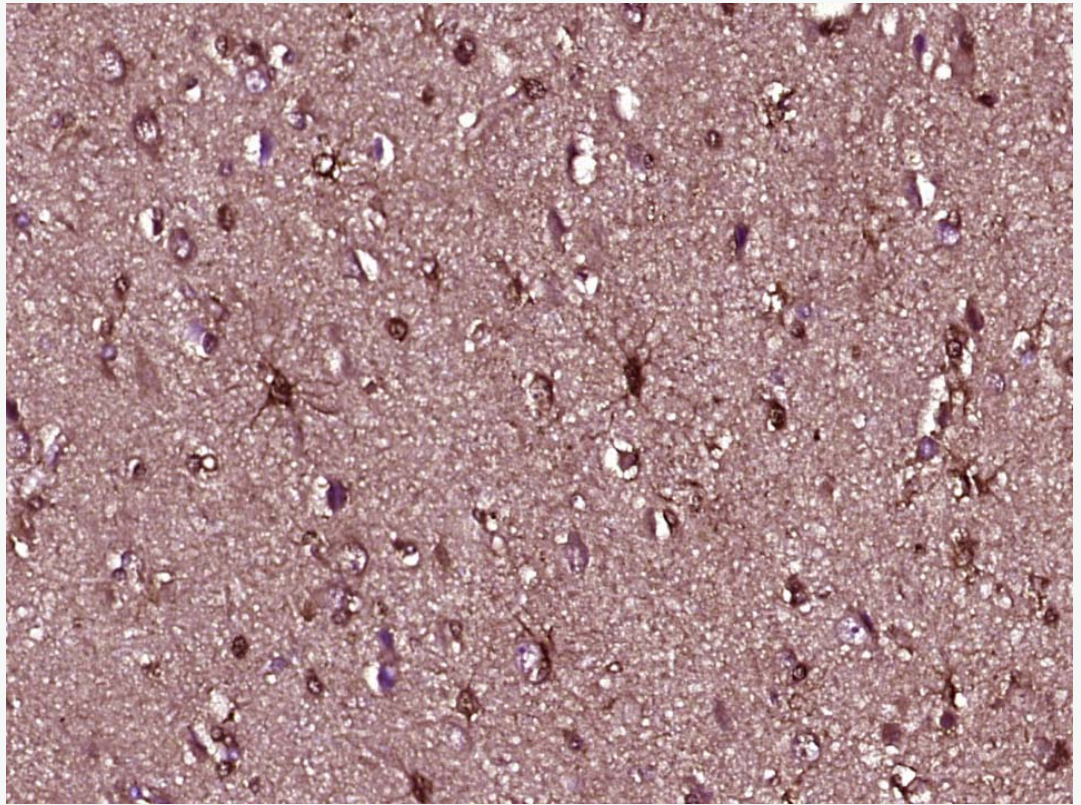
Lane 10: Human Hela cell lysates

Primary: Anti-Peroxiredoxin 1 (SLM-33118M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 22 kD

Observed band size: 23 kD



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Peroxiredoxin 1) Monoclonal Antibody,



SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Unconjugated (ascites of SLM-33118M 10F9) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.