

PRDX1 / Peroxiredoxin 1 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS13105

Specification

PRDX1 / Peroxiredoxin 1 Antibody (Internal) - Product Information

Application	WB, IHC
Primary Accession	Q06830
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Horse, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	22kDa KDa

PRDX1 / Peroxiredoxin 1 Antibody (Internal) - Additional Information

Gene ID 5052

Other Names

Peroxiredoxin-1, 1.11.1.15, Natural killer cell-enhancing factor A, NKEF-A, Proliferation-associated gene protein, PAG, Thioredoxin peroxidase 2, Thioredoxin-dependent peroxide reductase 2, PRDX1, PAGA, PAGB, TDPX2

Target/Specificity

Human PRDX1 / Peroxiredoxin 1. Reported variants represent identical protein (NP_002565.1, NP_859047.1, NP_859048.1).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

PRDX1 / Peroxiredoxin 1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

PRDX1 / Peroxiredoxin 1 Antibody (Internal) - Protein Information

Name PRDX1

Synonyms PAGA, PAGB, TDPX2

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. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H₂O₂ (PubMed:9497357). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor

neuron differentiation (By similarity).

Cellular Location

Cytoplasm. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

PRDX1 / Peroxiredoxin 1 Antibody (Internal) - Protocols

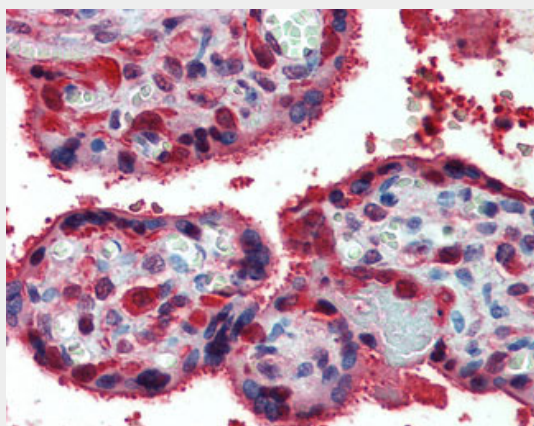
Provided below are standard protocols that you may find useful for product applications.

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

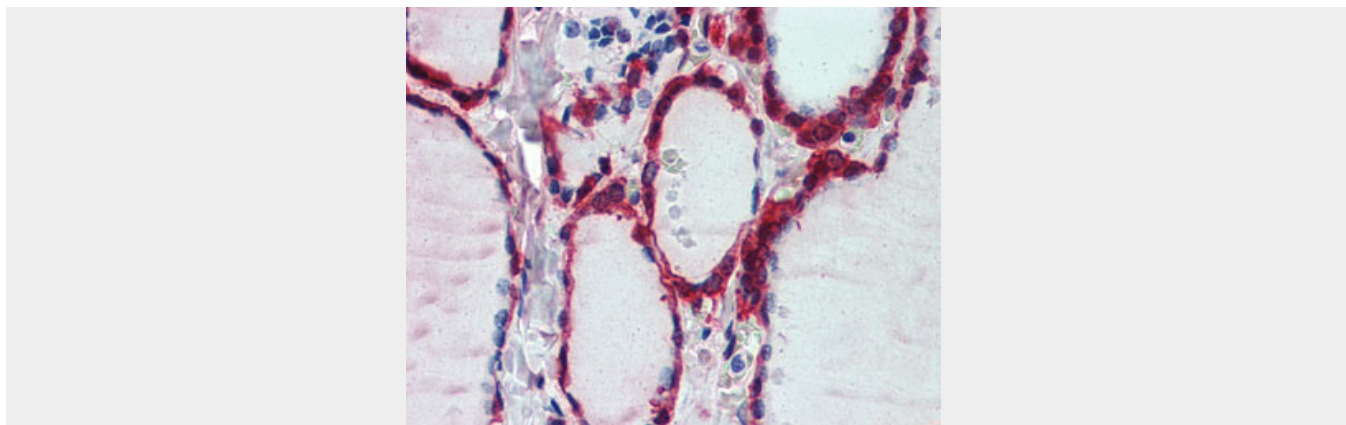
PRDX1 / Peroxiredoxin 1 Antibody (Internal) - Images



Antibody (0.01 ug/ml) staining of HepG2 lysate (35 ug protein in RIPA buffer).



Anti-PRDX1 / Peroxiredoxin 1 antibody IHC of human placenta.



Anti-PRDX1 / Peroxiredoxin 1 antibody IHC of human thyroid.

PRDX1 / Peroxiredoxin 1 Antibody (Internal) - Background

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 (By similarity).

PRDX1 / Peroxiredoxin 1 Antibody (Internal) - References

Prosperi M.T.,et al.J. Biol. Chem. 268:11050-11056(1993).
Shau H.,et al.Immunogenetics 40:129-134(1994).
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
Goshima N.,et al.Nat. Methods 5:1011-1017(2008).