10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Peroxiredoxin 1 Antibody

Mouse monoclonal antibody to Peroxiredoxin 1
Catalog # AP61594

Specification

Anti-Peroxiredoxin 1 Antibody - Product Information

Application	**WB, IF/IC**
Primary Accession	Q06830
Other Accession	P35700
Reactivity	**Human, Mouse, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**22110**

Anti-Peroxiredoxin 1 Antibody - Additional Information

Gene ID 5052

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

Target/Specificity
Recognizes endogenous levels of Peroxiredoxin 1 protein.

Dilution
WB~~WB (1/1000 - 1/3000), IF/IC (1/100 - 1/200)
IF/IC~~N/A

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-Peroxiredoxin 1 Antibody - 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 H(2)O(2) (PubMed:9497357). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation (By similarity).

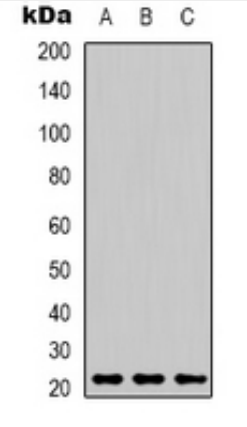
Cellular Location
Cytoplasm. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

Anti-Peroxiredoxin 1 Antibody - Protocols

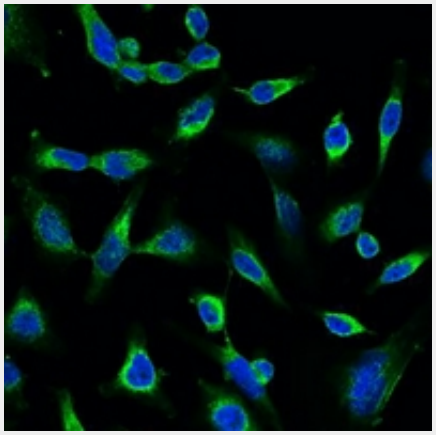
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Peroxiredoxin 1 Antibody - Images



Western blot analysis of Peroxiredoxin 1 expression in MCF7 (A), mouse brain (B), rat kidney (C) whole cell lysates.



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Immunofluorescent analysis of Peroxiredoxin 1 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a FITC-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Anti-Peroxiredoxin 1 Antibody - Background

Recombinant protein corresponding to human Peroxiredoxin 1.