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

Anti-PRDX1/Peroxiredoxin 1 Rabbit Monoclonal Antibody

Catalog # ABO13728

Specification

Anti-PRDX1/Peroxiredoxin 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC, IF, ICC, FC**
Primary Accession	Q06830
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-PRDX1/Peroxiredoxin 1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse.

Anti-PRDX1/Peroxiredoxin 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 5052

Other Names
Peroxiredoxin-1, 1.11.1.24, Natural killer cell-enhancing factor A, NKEF-A, Proliferation-associated gene protein, PAG, Thioredoxin peroxidase 2, Thioredoxin-dependent peroxide reductase 2, Thioredoxin-dependent peroxiredoxin 1, PRDX1, PAGA, PAGB, TDPX2

Calculated MW
22110 MW KDa

Application Details
WB 1:1000-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
FC 1:50

Subcellular Localization
Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human PRDX1

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

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

Anti-PRDX1/Peroxiredoxin 1 Rabbit Monoclonal 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).

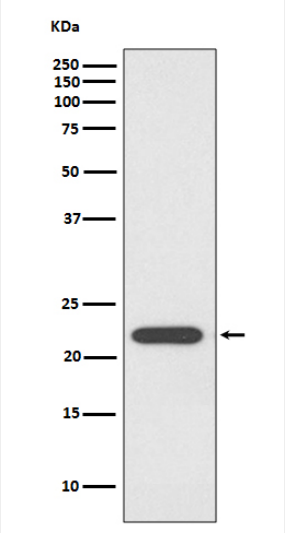
Cellular Location
Cytoplasm. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

Anti-PRDX1/Peroxiredoxin 1 Rabbit Monoclonal Antibody - Protocols

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

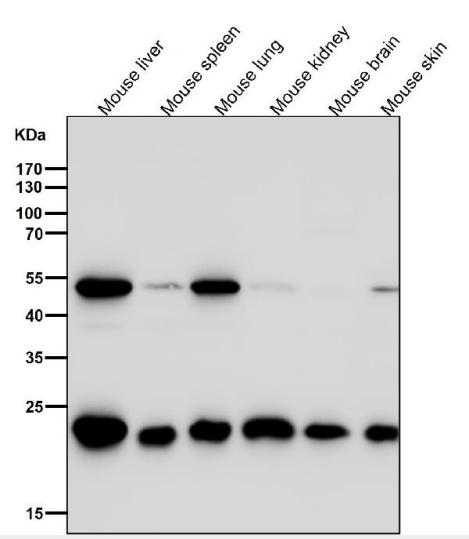
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PRDX1/Peroxiredoxin 1 Rabbit Monoclonal Antibody - Images



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

Western blot analysis of PRDX1 expression in K562 cell lysates.



All lanes use the Antibody at 1:3W dilution for 1 hour at room temperature.