

## Goat Anti-Peroxiredoxin 2 Antibody

Peptide-affinity purified goat antibody Catalog # AF1813a

#### **Specification**

## Goat Anti-Peroxiredoxin 2 Antibody - Product Information

Application WB, E
Primary Accession P32119

Other Accession
Reactivity
NP\_859427, 7001
Human, Mouse

Predicted Rat
Host Goat
Clonality Polyclonal
Concentration 100ug/200ul

Isotype IgG
Calculated MW 21892

# Goat Anti-Peroxiredoxin 2 Antibody - Additional Information

#### **Gene ID** 7001

## **Other Names**

Peroxiredoxin-2, 1.11.1.15, Natural killer cell-enhancing factor B, NKEF-B, PRP, Thiol-specific antioxidant protein, TSA, Thioredoxin peroxidase 1, Thioredoxin-dependent peroxide reductase 1, PRDX2, NKEFB, TDPX1

# **Dilution**

WB~~1:1000 E~~N/A

#### **Format**

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## **Precautions**

Goat Anti-Peroxiredoxin 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### Goat Anti-Peroxiredoxin 2 Antibody - Protein Information

#### Name PRDX2

Synonyms NKEFB, TDPX1



#### **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).

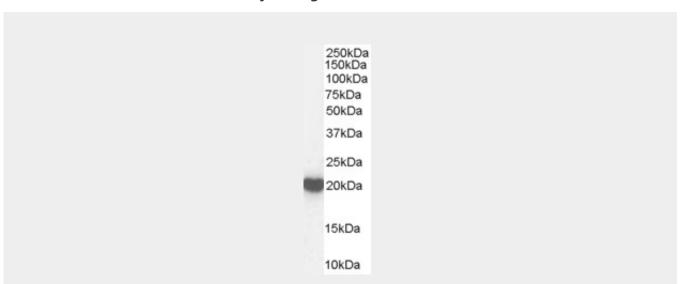
Cellular Location Cytoplasm.

## Goat Anti-Peroxiredoxin 2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Goat Anti-Peroxiredoxin 2 Antibody - Images



AF1813a (1  $\mu$ g/ml) staining of Human Brain lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### Goat Anti-Peroxiredoxin 2 Antibody - Background

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. The crystal structure of this protein has been resolved to 2.7 angstroms. Transcript variants encoding distinct isoforms have been identified for this gene.

#### Goat Anti-Peroxiredoxin 2 Antibody - References







Ezrin, maspin, peroxiredoxin 2, and heat shock protein 27: potential targets of a streptococcal-induced autoimmune response in psoriasis. Besgen P, et al. | Immunol, 2010 May 1. PMID 20363977.

New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.

Low 8-oxo-7,8-dihydro-2'-deoxyguanosine levels and influence of genetic background in an Andean population exposed to high levels of arsenic. Engstr□m KS, et al. Mutat Res, 2010 Jan 5. PMID 19896490.

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