

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	NP_859427 , 7001
Reactivity	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 IgG/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 H₂O₂.

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](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-Peroxiredoxin 2 Antibody - Images

AF1813a (1 µg/ml) staining of Human Brain lysate (35 µg 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. J 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. Engström KS, et al. Mutat Res, 2010 Jan 5. PMID 19896490.

Chloramines and hypochlorous acid oxidize erythrocyte peroxiredoxin 2. Stacey MM, et al. Free Radic Biol Med, 2009 Nov 15. PMID 19716412.

The malarial parasite Plasmodium falciparum imports the human protein peroxiredoxin 2 for peroxide detoxification. Koncarevic S, et al. Proc Natl Acad Sci U S A, 2009 Aug 11. PMID 19666612.