

Peroxiredoxin II, Human

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Overview

Product Name: Peroxiredoxin II, Human

Product Type: Protein

Lot No: RJE07

Product Information

Concentration: 1mg/ml

Storage: Store at -80°C. Avoid frequent freeze and thaw.

Composition: Liquied from 20mM HEPES, 10% glycerol, pH7.5

Source: Purified from E.coli expressing the human Peroxiredoxin II gene (1-198aa)

Molecular Weight: 22 kDa

Specific activity: 1.6u/mg (One unit will cause the oxidation of 1.0 µmole of NADPH at 25°C at pH 7.5)

Endotoxin activity: Not tested

Form: Liquid

Purity: > 95% by SDS-PAGE

Expression system: E.coli

Tag: None

Origin: Human

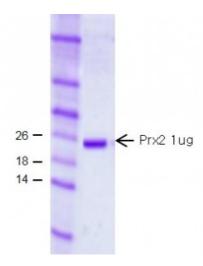
Target

Background: Peroxiredoxin (Prx) is a growing peroxidase family, whose mammalian members have been known to connect with cell proliferation, differentiation, and apoptosis. Many isoforms (about 50 proteins), collected in accordance to the amino acid sequence homology, particularly amino-terminal region containing active site cysteine residue, and the thiol-specific antioxidant activity, distribute throughout all the kingdoms. Among them, mammalian Prx consists of 6 different members grouped into typical 2-Cys, atypical 2-Cys Prx, and 1-Cys Prx. Except Prx VI belonging to 1-Cys Prx subgroup, the other five 2-Cys Prx isotypes have the thioredoxin-dependent peroxidase (TPx) activity utilizing thioredoxin, thioredoxin reductase, and NADPH as a reducing system. Mammalian Prxs are 20 - 30 kilodalton in molecular size and vary in subcellular localization: Prx I, II, and VI in cytosol, Prx III in mitochondria, Prx IV in ER and secretion, Prx V showing complicated distribution including peroxisome, mitochondria and cytosol (1).

Background reference: 1) Wood, Z. A. et al. (2003) Trends Biochem Sci. 28(1):32-40.

Database link - SwissProt no. P32119

Image





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