

Monoclonal Antibody to 2-Cys-Peroxiredoxin - Purified

Alternate names:	2 Cys Peroxiredoxin, Redox enzyme
Catalog No.:	AM20768PU-N
Quantity:	0.1 mg
Background:	<p>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 kDa 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).</p>
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	6E5
Immunogen:	Recombinant Human protein purified from E.coli
Format:	State: Liquid purified IgG fraction Purification: Ammonium Sulfate Precipitation Buffer System: HEPES with 0.15M NaCl, 0.01% BSA, 0.03% Sodium Azide and 50% Glycerol
Applications:	ELISA. Western Blot (1/1000) Positive Control: HeLa cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes 2-Cys-Peroxiredoxin. Species: Human and Mouse. Other species not tested.
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
General Readings:	1. Wood, Z. A. et al. (2003) Trends Biochem Sci. 28(1):32-40.