

Product Information

Size:

5µg

Applications:

Western Blot, ELISA, Flow Cytometry

Reactivity:

Human

Source:

Mouse

Isotype:

IgG2a

Purification Method:

PRDX6 antibody was purified from mouse ascitic fluids by protein-A affinity chromatography.

Protein Background:

Peroxiredoxin 6 (PRDX6) belongs to the thiol-specific antioxidant protein family. PRDX6 is a bifunctional enzyme with 2 distinct active sites. PRDX6 is involved in redox regulation of the cell and can reduce Hydrogen peroxide and short chain organic, fatty acid, and phospholipid hydroperoxides. PRDX6 may have a role in the regulation of phospholipid turnover as well as in protection against oxidative injury. Furthermore, PRDX6 eases the oxidative stress and TGF-beta-induced abnormalities of human trabecular meshwork cells. In addition, PRDX6 is necessary for blood vessel integrity in injured skin. At acidic pH, PRDX6 binds to reduced phospholipids, however at cytosolic pH PRDX6 binds only to phospholipids that are oxidized which is compatible with the role for PRDX6 in the repair of peroxidized cell membranes. Hydrogen peroxide-mediated hyperoxidation of PRDX6 induces cell cycle arrest at the G2/M transition via up-regulation of iPLA2 activity. Overexpression of PRDX6 is linked to oligodendroglioma.

Synonyms:

Peroxiredoxin-6, Antioxidant protein 2, 1-Cys peroxiredoxin, Acidic calcium-independent phospholipase A2, Non-selenium glutathione peroxidase, 24 kDa protein, Liver 2D page spot 40, Red blood cells page spot 12, 1-Cys PRX, aiPLA2, NSGPx, PRDX6, AOP2, KIAA0106, PRX, p29, 1-Cys, MGC46173.

Immunogen:

Anti-human PRDX6 mAb, is derived from hybridization of mouse F myeloma cells with spleen cells from BALB/c mice immunized with recombinant human PRDX6 amino acids 1-224 purified from Ecoli.

Storage:

For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.