

PRODUCT DATA SHEET

Product: Anti-Peroxiredoxin V mAb, clone 3F11

Cat. No.: MC-1037 (100 µL)

Description:

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.

Immunogen:

Recombinant human PrxV fragment protein (without mitochondrial leader sequence) purified from E.coli

Host:

Mouse

Isotype:

IgG1

Species Reactivity:

Human. Does not cross react with mouse or rat. Others not tested.

Format:

HEPES with 0.15M NaCl with protein stabilizer, 0.03% sodium azide and 50% glycerol

Positive Control:

HeLa

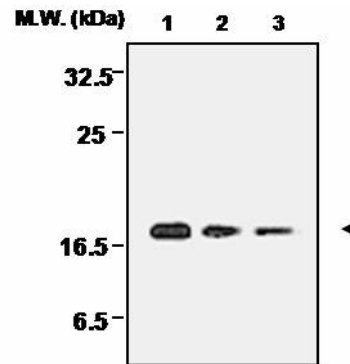
Storage:

Store at -20°C. Avoid repeated freeze/thaw cycles.

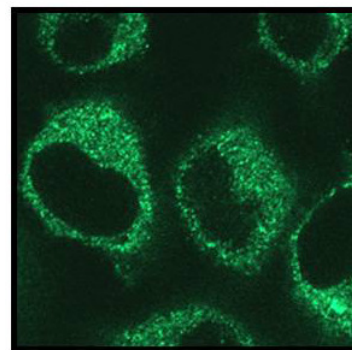
Applications:

- ELISA
- Western Blot: Suggested dilution, 1:1000
- Immunocytochemistry: Suggest 20 µL/mL
- Immunoprecipitation: 1-2 µL

The optimal dilution for a specific application should be determined by the researcher.



IMMUNOBLOT ANALYSIS of cell lysates using Prx V, MC-1037.
Lane 1: HeLa cell lysates Lane 2: 293 cell lysates
Lane 3: Jurkat cell lysates



IMMUNOCYTOCHEMICAL STAINING of Human HeLa cells using Prx V MC-1037.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.