



## PRODUCT DATA SHEET

**Product:** Anti-Glutathione Peroxidase 4 mAb, clone 1H11

**Cat. No.:** MC-1032 (100 µL)

**Description:**

Glutathione peroxidases (Gpxs) are ubiquitously expressed proteins which catalyze the reduction of hydrogen peroxides and organic hydroperoxides by glutathione. There are several isoforms which differ in their primary structure and localization. The classical cytosolic/mitochondrial GPx1 (cGPx) is a selenium-dependent enzyme, first of the GPx family to be discovered. GPx2, also known as gastrointestinal GPx (GI-GPx), is an intracellular enzyme expressed only at the epithelium of the gastrointestinal tract. Extracellular plasma GPx (pGPx or GPx3) is mainly expressed by the kidney from where it is released into the blood circulation. Phospholipid hydroperoxide GPx4 (PH-GPx) expressed in most tissues, can reduce many hydroperoxides including hydroperoxides integrated in membranes, hydroperoxy lipids in low density lipoprotein or thymine. All mammalian GPx family members, except for the recently described Cys containing GPx3 and epididymis-specific secretory GPx (eGPx or GPx5) isoforms, possess selenocysteine at the active site.

**Immunogen:**

Recombinant human protein purified from E. coli

**Host:**

Mouse

**Isotype:**

IgG1

**Species Reactivity:**

Human, Mouse and Rat. Others not tested.

**Format:**

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

**Positive Control:**

HL-60

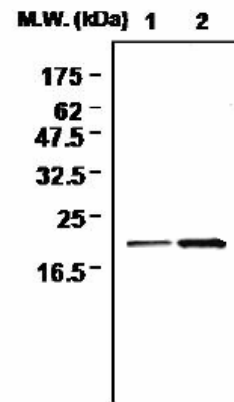
**Storage:**

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

**Applications:**

- ELISA
- Immunoprecipitation: Use at 1-2 µL

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



IMMUNOPRECIPITATION ANALYSIS of HL-60 cell lysates:

Lane 1: Input      Lane 2: Precipitates

Immunoblot: anti-Gpx4 polyclonal antibody

**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.