

PRODUCT DATA SHEET

Product: Anti-Glutathione Reductase mAb, clone 2B3

Cat. No.: MC-1033 (100 µL)

Description:

Glutathione reductase (GR) is a member of pyridine nucleotide-disulfide oxidoreductases, which includes the closely related enzymes thioredoxin reductase, lipoamide dehydrogenase, trypanothione reductase and mercuric ion reductase. GR is a cytoplasmic flavoenzyme widely distributed in aerobic organisms. The dimeric protein is composed of two identical subunits, each containing 1 FAD and 1 redox-active disulfide/dithiol as components of the catalytic apparatus. It plays a role in maintaining glutathione (GSH) in its reduced form by catalyzing the reduction of glutathione disulfide (GSSG): $GSSG + NADPH + H^+ \rightarrow 2GSH + NADP^+$ In most eukaryotic cells, GR maintains the ratio of [GSH]/[GSSG] elevated, and participates in several vital functions such as the detoxification of reactive oxygen species as well as protein and DNA biosynthesis.

Immunogen:

Recombinant human protein purified from E. coli

Host:

Mouse

Isotype:

IgG1

Species Reactivity:

Human. Others not tested.

Format:

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

Positive Control:

HeLa

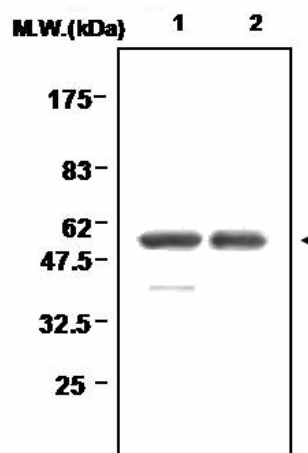
Storage:

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

Applications:

- ELISA
- Immunoprecipitation: Use at 1-2 µL

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



IMMUNOPRECIPITATION ANALYSIS of HeLa cell lysates:
Lane 1: Input Lane 2: Precipitates
Immunoblot: anti-GR 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.