MONOCLONAL ANTIBODY



Anti-Glutathione Peroxidase 3 (55A)

Background : 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 seleniumdependent enzyme, first of the GPx family to be discovered. GPx2, also known as (GI-GPx), gastrointestinal GPx intracellular enzyme expressed only at the epithelium of the gastrointestinal tract (1). Extracellular plasma GPx (pGPx or GPx3) is mainly expressed by the kidney from where it is released into the blood circulation (2). Phospholipid hydroperoxide GPx4 (PH-GPx) expressed in most tissues, can reduce hydroperoxides including hydroperoxides integrated in membranes, hydroperoxy lipids in low lipoprotein or thymine (3). All mammalian GPx family members, except for the recently Cys containing GPx3 described epididymis-specific secretory GPx (eGPx or GPx5) isoforms, possess selenocysteine at the

active site (4-5). **Immunogen**: Recombinant human protein purified from *E.coli*

Host: Mouse

Clone number : 55A **Isotype :** IgG2b, K

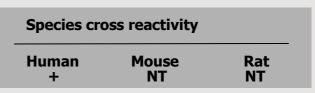
Size: $100 \mu \ell$

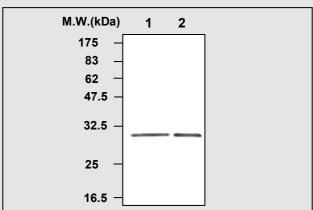
Composition: PBS containing 50% glycerol

Positive control : Bosc23 cell lysate transfected with Myc-His-Gpx3

Storage : Store for 1 year at -20°C from date

of shipment





IMMUNOPRECIPITATION ANALYSIS of Bosc23 cell lysates transfected with Myc-His-Gpx3

Lane 1 : Input Lane 2 : Immunoprecipitates Immunoblot: anti-Gpx3 polyclonal antibody [LabFrontier]

Applications:

ELISA

Immunoprecipitation (1 $\mu\ell$ for 400 $\mu\ell$ lysate)

Background Reference:

- 1) Takebe, G., et al. (2002) J. Biol. Chem. 277, 41254-41258.
- 2) Avissar, N. et al. (1994) Am. J. Physiol. 267,E68-76.
- 3) Bao, Y. et al. (1997) FEBS Lett. 410, 210-212.
- 4) Chambers, I. et al. (1986) EMBO J. 5, 1221-1227.
- 5) Perry, A. et al. (1992) Biochem. J. 285, 863-870.

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