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POLYCLONAL ANTIBODY

Anti-Glutathione Peroxidase IV

Catalog No. LF-PA0055

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 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 (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 many hydroperoxides including hydroperoxides integrated in membranes, hydroperoxy lipids in low density lipoprotein or thymine (3). 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 (4-5).

Immunogen : Recombinant human protein purified from *E.coli*

Host : Rabbit

Size : 100ul

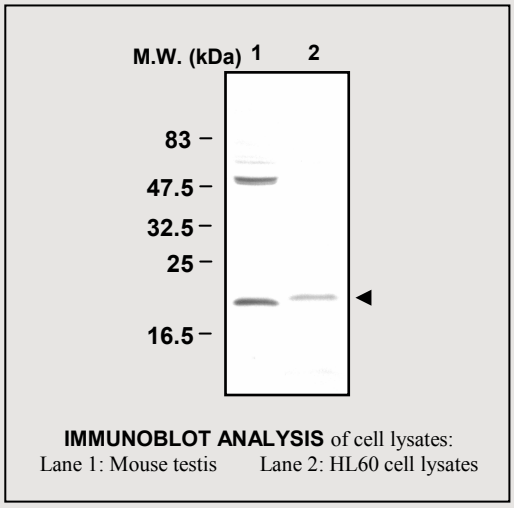
Composition : PBS coataning 50% glycerol

Positive control : HL60 cell lysate

Storage : store for 1 year at -20°C from date of shipment

Species cross reactivity

Human	Mouse	Rat
+	+	+



IMMUNOBLOT ANALYSIS of cell lysates:
Lane 1: Mouse testis Lane 2: HL60 cell lysates

Application :
Western blotting (1:2000)
Immunoprecipitation was not tested

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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