Catalog No. LF-MA0114

MONOCLONAL ANTIBODY

Anti-Glutathione peroxidase 3(23B1)

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. 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 : His-tagged recombinant human Gpx3 protein purified from *E. coli*

Host : Mouse **Clone number :** 23B1

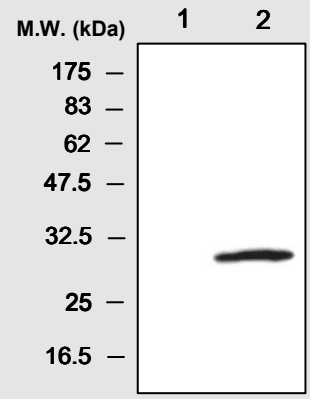
Isotype : IgG1, k **Size :** 100 µℓ

Composition : PBS containing 50% glycerol

Positive control : Bosc23 cell lysates

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

Species cross reactivity		
Human	**Mouse**	**Rat**
+	**NT**	**NT**



IMMUNOBLOT ANALYSIS of cell lysates :
Lane 1 : Bosc23 cell lysates
Lane 2 : Bosc23 cell lysate transfected with myc-Gpx3

Applications :
Western blotting (1:500)

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.

FOR RESEARCH PURPOSE ONLY
NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium
http://www.gentaur-worldwide.com