

Glutathione Peroxidase 3 Antibody (Clone 55A)
Mouse Monoclonal Antibody
Catalog # ABV11177**Specification**

Glutathione Peroxidase 3 Antibody (Clone 55A) - Product Information

Application	E, IP
Primary Accession	P22352
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Calculated MW	25552

Glutathione Peroxidase 3 Antibody (Clone 55A) - Additional Information**Gene ID** 2878

Positive Control	WB and IP:Bosc23 cell lysate
Application & Usage	IP: 1-2 µl, ELISA.
Other Names	
GPX3	

Target/Specificity
Glutathione Peroxidase 3**Antibody Form**
Liquid**Appearance**
Colorless liquid**Formulation**
100 µl of antibody in HEPES with 0.15 M NaCl, 0.01 % BSA, 0.03 % sodium azide, and 50 % glycerol**Handling**
The antibody solution should be gently mixed before use.**Reconstitution & Storage**
-20 °C**Background Descriptions****Precautions**

Glutathione Peroxidase 3 Antibody (Clone 55A) is for research use only and not for use in diagnostic or therapeutic procedures.

Glutathione Peroxidase 3 Antibody (Clone 55A) - Protein Information

Name GPX3 ([HGNC:4555](#))

Synonyms GPXP

Function

Protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione.

Cellular Location

Secreted.

Tissue Location

Secreted in plasma.

Glutathione Peroxidase 3 Antibody (Clone 55A) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Glutathione Peroxidase 3 Antibody (Clone 55A) - Images

Glutathione Peroxidase 3 Antibody (Clone 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 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.