

Anti-GPX3 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted:Human,Mouse,Pig,Cow)
Molecular Weight:	Theoretical: 23 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Paraformaldehyde-fixed, paraffin embedded (rat placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GPX3) Polyclonal Antibody, Unconjugated (TMAB-06745) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GPX3
Antigen Species:	Human
Gene ID:	2878
Uniprot ID:	P22352

Research Background

Glutathione peroxidases(Gpxs) are ubiquitously expressed proteins which catalyze the reduction of hydrogen peroxides and organohydroperoxides 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(pGPxor GPx3) is mainly expressed by the kidney from where it is released into the blood. Phospholipid hydroperoxide GPx4 (PH-GPx) expressed in most tissues, can reduce many hydroperoxides including hydroperoxides integrated in membranes, hydroperoxylipids in low density lipoprotein orthymine. All mammalian GPx family members, except for the recently described Cys containing GPx3 and epididymis-specific secretory GPx(eGPxor GPx5)isoforms, possess selenocysteine at the active site.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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