

Anti-GPX4 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Pig, Cow, Sheep)
Molecular Weight:	Theoretical: 22 kDa. Actual: 20-22 kDa.
Purification:	Protein A purified

Applications

1. Sample: Kidney (mouse) Lysate at 40 µg
Primary: Anti-GPX4 (TMAB-00806) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22 kDa
Observed band size: 20 kDa

2. Sample:

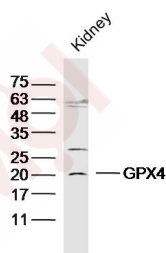
Lane 1: Testis (Mouse) Tissue Lysate at 40 µg
Lane 2: Liver (Mouse) Tissue Lysate at 40 µg
Lane 3: Kidney (Mouse) Tissue Lysate at 40 µg
Lane 4: Heart (Mouse) Tissue Lysate at 40 µg
Lane 5: Testis (Rat) Tissue Lysate at 40 µg
Lane 6: Liver (Rat) Tissue Lysate at 40 µg
Lane 7: Kidney (Rat) Tissue Lysate at 40 µg
Lane 8: Heart (Rat) Tissue Lysate at 40 µg

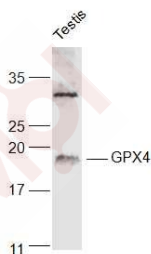
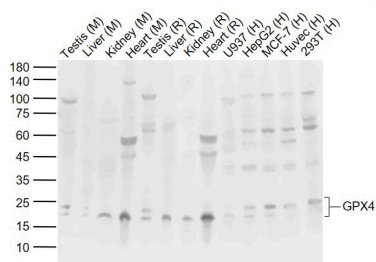
Verified Activity:

Lane 9: U937 (Human) Cell Lysate at 30 µg
Lane 10: HepG2 (Human) Cell Lysate at 30 µg
Lane 11: MCF-7 (Human) Cell Lysate at 30 µg
Lane 12: Huvec (Human) Cell Lysate at 30 µg
Lane 13: 293T (Human) Cell Lysate at 30 µg
Primary: Anti-GPX4 (TMAB-00806) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22 kDa
Observed band size: 20-22 kDa

3. Sample:

Testis (Mouse) Lysate at 40 µg
Primary: Anti-GPX4 (TMAB-00806) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22 kDa
Observed band size: 19 kDa





Application: WB
 Recommended WB: 1:500-2000

Properties

Stability & Storage: 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 Glutathione Peroxidase 4
 Antigen Species: Human
 Gene ID: 2879
 Uniprot ID: P36969
 Synonyms: snPHGPx;snGPx;GluA4;MCSP;NEDSGA;GLUR4;GLURD;GPx-4;PHGPx;GSHPx-4;GLUR4C
 Biology Area: Cellular metabolic process,Mitochondrial markers,Antioxidants,Cancer,Mitochondrial

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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