

Recombinant Glutathione Peroxidase 4 Monoclonal Antibody

catalog number: AN301875L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

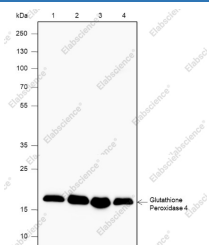
Reactivity	Human;Mouse;Rat
Immunogen	Recombinant human Glutathione Peroxidase 4 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C131497
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

WB	1:500-1:1000
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Data



Western Blot with Glutathione Peroxidase 4 Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: LNCaP, Lane 3: Mouse liver, Lane 4: Rat liver

Observed-MW:22 kDa

Calculated-MW:22 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

The selenoprotein glutathione peroxidase 4 (GPX4) is a master regulator of ferroptosis, a form of programmed cell death induced by iron-dependent lipid peroxidation. GPX4 converts lipid hydroperoxides to non-toxic lipid alcohols, therefore preventing ferroptosis. Research studies show that selenium enhances GPX4 expression and inhibits ferroptotic death to protect neurons. In addition, some therapy-resistant cancer cells depend on GPX4 to survive. Loss of GPX4 leads to ferroptosis and thus prevents tumor relapse in mice. Furthermore, redox homeostasis mediated by GPX4 is essential for activation of the cytosolic DNA-sensing cGAS-STING pathway and initiation of the subsequent innate immune response.

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Toll-free: 1-888-852-8623
Web: www.elabscience.com

Tel: 1-832-243-6086
Email: techsupport@elabscience.com

Fax: 1-832-243-6017

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