

GPx-4 polyclonal antibody

Catalog: BS67575

Host: Rabbit

Reactivity: Human

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.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 20 kDa

Swiss-Prot:

P36969

Purification&Purity:

The antibody was purified by immunogen affinity chro-

matography.

Applications:

WB (1/500 - 1/1000)

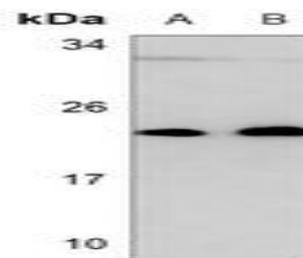
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of GPx-4 protein.

DATA:



Western blot analysis of GPx-4 expression in HEK293T (A), K562 (B) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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