

Anti-GPX4 Polyclonal Antibody

Cat: AC55146

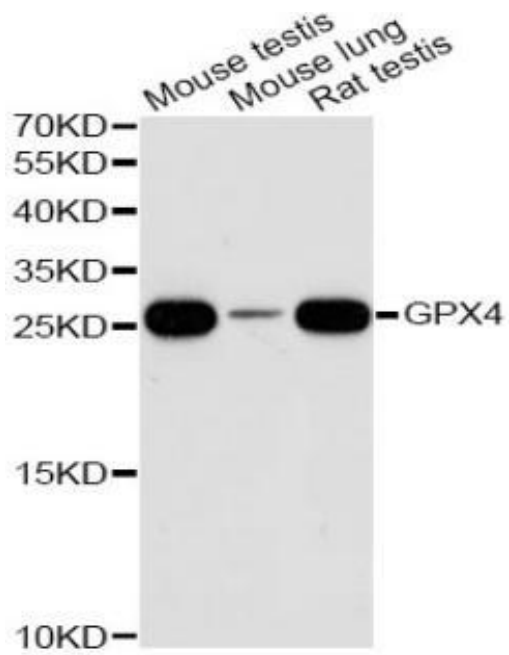
Summary:

- | | |
|---|---|
| 【Product name】 : Anti-GPX4 antibody | 【Source】 : Rabbit |
| 【Isotype】 : IgG | 【Species reactivity】 : Human Mouse Rat |
| 【Swiss Prot】 : P36969 | 【Gene ID】 : 2879 |
| 【Calculated】 : MW:22kDa | 【Observed】 : MW:25kDa |
| 【Purification】 : Affinity purification | |
| 【Tested applications】 : WB IHC IF | |
| 【Recommended dilution】 : WB 1:500-2000. IHC 1:50-200. IF 1:50-200. | |
| 【WB Positive sample】 : Mouse testis,Mouse lung,Rat testis | |
| 【IHC Positive sample】 : Human liver | |
| 【Subcellular location】 : Cytoplasm Mitochondrion | |
| 【Immunogen】 : Recombinant protein of human GPX4 | |
| 【Storage】 : Shipped at 4°C. Upon delivery aliquot and store at -20°C | |

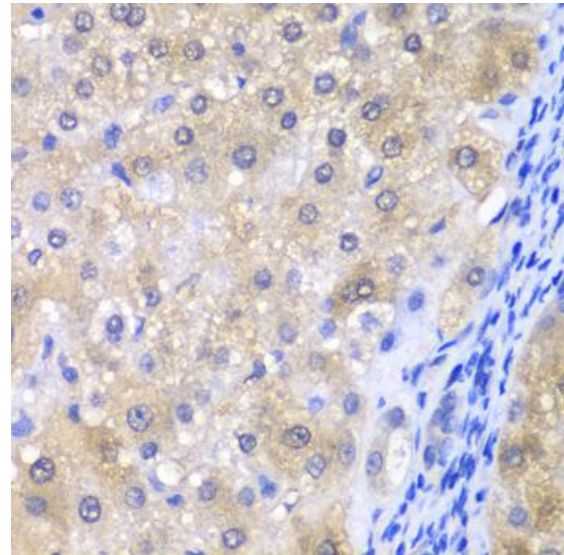
Background:

The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of hydrogen peroxide, organic hydroperoxides and lipid hydroperoxides, and thereby protect cells against oxidative damage. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme has a high preference for lipid hydroperoxides and protects cells against membrane lipid peroxidation and cell death. It is also required for normal sperm development; thus, it has been identified as a 'moonlighting' protein because of its ability to serve dual functions as a peroxidase, as well as a structural protein in mature spermatozoa. Mutations in this gene are associated with Sedaghatian type of spondylometaphyseal dysplasia (SMDS).

Verified picture



Western blot analysis with GPX4 antibody diluted at 1:1000; Lane: Mouse testis, Mouse lung, Rat testis



Immunohistochemistry of paraffin-embedded Human liver with GPX4 antibody diluted at 1:200