

Glutathione Antibody

Subcategory: Modification Specific Antibody, Rabbit Polyclonal Antibody

Cat. No.: 251134

Unit: 0.1 mg

Description:

Glutathione (GSH) is an important antioxidant in plants, animals, fungi and some bacteria and archea, preventing damage to important cellular components caused by reactive oxygen species such as free radicals and peroxides.

Glutathione is a tripeptide that contains a gamma peptide linkage between the amine group of cysteine and the carboxyl group of the glutamate side chain. Glutathione reduces disulphide bonds formed within cytoplasmic proteins by serving as an electron donor to yield glutathione disulphide (GSSG). Glutathionylated proteins have been reported in oxidative-stressed human T lymphocytes. The GSH:GSSG ratio within cells is often used as a measure of cellular toxicity. The antibody can be used for detection, quantitation, and isolation of proteins modified with reduced (GSH) or oxidized (GSSG) glutathione groups.

Isotype: Rabbit Ig

Applications: E, IF, IHC, IP, WB

Species Reactivity: H, M, R

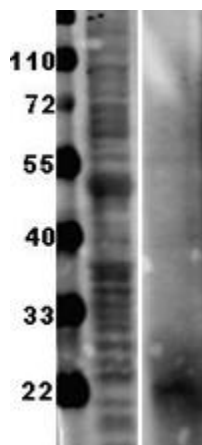
Format: Each vial contains 0.1 mg IgG in 0.4 ml (0.25 mg/ml) of PBS pH7.4, 50% glycerol. Antibody was purified by immunogen-affinity chromatography on a glutathione agarose column.

Alternate Names: Glutathione; GSH; GSSG

Accession No.: 70-18-8

Antigen: Glutathione conjugated to KLH via disulphide bonds

Application Notes: Cat. No. 251134 recognizes reduced (GSH) and oxidized (GSSG) glutathione as well as glutathionylated proteins and peptides. E: 1:500-1:2,000; WB: 1:200-1:1000; IHC: 1:100-1:500; IP: 5 ug sample; IF: 5 ug/ml



The Glutathione Antibody (Cat. No. 251134) is used in Western blot to detect glutathionylated proteins in human melanoma cell lysates before (left), and after (right) boiling sample with DTT.

Storage: Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.