GSTP1 (3F2C2): sc-66000

BACKGROUND

Glutathione S-transferases (GSTs) function in the metabolic detoxification of various environmental carcinogens and lipid hydroperoxides. In response to oxidative stress, upregulation of the GST family member GSTP1 occurs, consistent with this function. Furthermore, the GSTP1 gene is subject to CpG island hypermethylation, a state that correlates with human prostatic carcinogenesis. GSTP1 gene hypermethylation can be detected in urine, ejaculate and plasma from men with prostate cancer, potentially making GSTP1 a useful biomarker for prostate cancer screening.

CHROMOSOMAL LOCATION

Genetic locus: GSTP1 (human) mapping to 11q13.2.

SOURCE

GSTP1 (3F2C2) is a mouse monoclonal antibody raised against purified truncated recombinant GSTP1 of human origin.

PRODUCT

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

GSTP1 (3F2C2) is available conjugated to agarose (sc-66000 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-66000 HRP), 200 µg/ml, for WB, IHC(HP) and ELISA; to either phycoerythrin (sc-66000 PE), fluorescein (sc-66000 FITC), Alexa Fluor® 488 (sc-66000 AF488), Alexa Fluor® 546 (sc-66000 AF546), Alexa Fluor® 594 (sc-66000 AF594) or Alexa Fluor® 647 (sc-66000 AF647), 200 µg/ml, for WB (RGB), IF, IHC(HP) and FCM; and to either Alexa Fluor® 680 (sc-66000 AF680) or Alexa Fluor® 790 (sc-66000 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

GSTP1 (3F2C2) is recommended for detection of GSTP1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for GSTP1 siRNA (h): sc-72091, GSTP1 shRNA Plasmid (h): sc-72091-SH and GSTP1 shRNA (h) Lentiviral Particles: sc-72091-V.

Molecular Weight of GSTP1: 23 kDa.

Positive Controls: JAR cell lysate: sc-2276, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

STORAGE

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

DATA

SELECT PRODUCT CITATIONS


PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.