Monoclonal Antibody to GSTP1

Cat. #: Mab-606114

Description:
GSTP1 (glutathione-S-transferase, pi 1), also called GST3/DFN7, which is located on chromosome 11q13 , is a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. GSTP1 act like a tumor suppressor gene, which when inactivated leads to tumor growth, and the -class glutathione S-transferase is commonly inactivated by somatic CpGisland hypermethylation in cancers of the prostate, liver, and breast. Methylation of regulatory sequences at the GSTP1 gene locus is found in the vast majority (>90%) of prostate carcinomas and is associated with transcriptional down-regulation.

Immunogen/Specificity:
Ni-NTA purified truncated recombinant GSTP1 expressed in E. Coli strain BL21 (DE3)

Applications :
Western Blot: 1: 500- 1: 2,000
IHC(P): 1: 500- 1: 2,000
IHC(F): 1: 500- 1: 2,000
ELISA: Propose dilution 1: 10,000.
Determining optimal working dilutions by titration test.

Formulation
Antibodies are purified by protein A affinity chromatography

Reference:
1. Kimihiko Satoh, Ken Itoh, Masayuki Yamamoto. 2002. Carcinogenesis. 23: 457 - 462.
2. Xiaohui Lin,William G. Nelson.2003.Cancer Research. 63: 498-504.

Clone Number 3F2C2
Isotype: IgG1
Species: Human
Storage and Stability: stored at -20 C

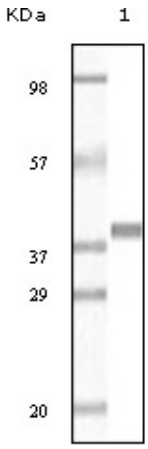
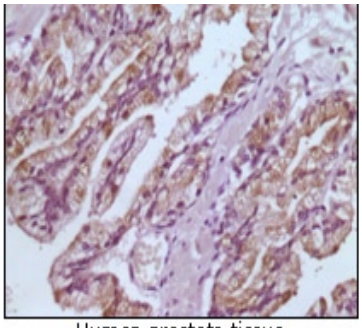


Figure 1: Western blot analysis using anti-Human GSTP1 monoclonal antibody against full length recombinant protein.



Human prostate tissue

Figure 2: Immunohistochemical analysis of paraffin-embedded normal human prostate tissue, showing cytoplasmic/nuclear localization using GSTP1 antibody with DAB staining.

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