

# 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 CpG island 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:

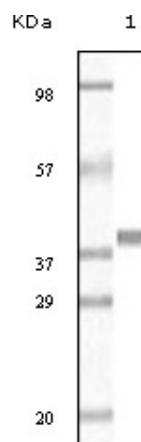
1. Kimihiko Satoh, Ken Itoh, Masayuki Yamamoto. 2002. Carcinogenesis. 23: 457 - 462.
2. Xiaohui Lin, William G. Nelson. 2003. Cancer Research. 63: 498-504.

Clone Number 3F2C2

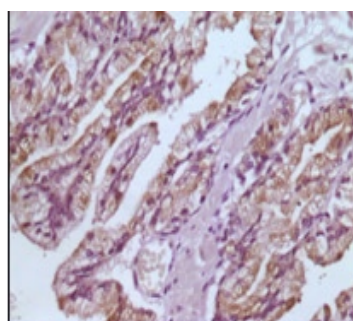
Isotype: IgG1

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.