

GSTP1 Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11662**Specification**

GSTP1 Antibody - Product Information

Application	WB
Primary Accession	P09211
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	23356

GSTP1 Antibody - Additional Information**Gene ID** 2950**Other Names**

Glutathione S-transferase P, GST class-pi, GSTP1-1

Target/Specificity

GSTP1

Formulation

100 µg (0.5 mg/ml) of antibody in PBS pH 7.2, 0.01 % BSA, 0.03 % ProClin®, and 50 % glycerol.

Handling

The antibody solution should be gently mixed before use.

Background Descriptions**Precautions**

GSTP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GSTP1 Antibody - Protein Information**Name** GSTP1 ([HGNC:4638](#))**Synonyms** FAEES3, GST3**Function**

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Involved in the formation of glutathione conjugates of both prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2) (PubMed: 9084911). Participates in the formation of novel hepoxilin regioisomers (PubMed: 21046276).

Negatively regulates CDK5 activity via p25/p35 translocation to prevent neurodegeneration.

Cellular Location

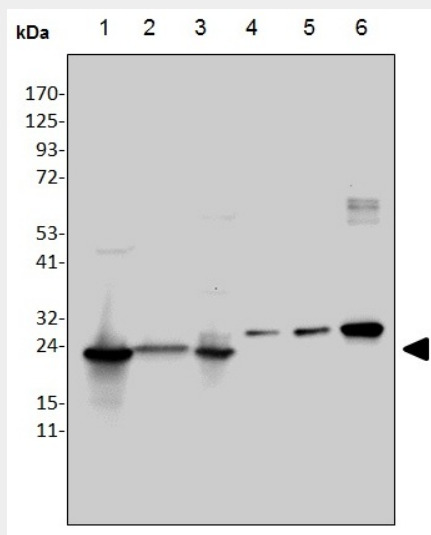
Cytoplasm. Mitochondrion. Nucleus. Note=The 83 N-terminal amino acids function as an uncleaved transit peptide, and arginine residues within it are crucial for mitochondrial localization

GSTP1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GSTP1 Antibody - Images



Western blot analysis of anti-GSTP1 antibody with Jurkat cells. 1: 3T3 cells; 2: R.kidney lysate; 3: GSTP1; 4: 2ng human GSTP1 recombinant protein; 5: 10ng human GSTP1 recombinant protein; 6: 100ng human GSTP1 recombinant protein.

GSTP1 Antibody - Background

Tissue transglutaminase, a 78-kDa calcium dependent enzyme (EC 2.3.2.13), is found both in the intracellular and the extracellular spaces of various types of tissues. TG2 crosslinks proteins between the ϵ -amino group of a lysine residue and the γ -carboxamide group of glutamine residue, creating an inter- or intramolecular bond that is highly resistant to proteolysis (protein degradation). TG2 also possesses deamidation, GTP-binding/hydrolyzing, and isopeptidase activities. Intracellular TG2 is thought to play an important role in apoptosis, while extracellular TG2 has been linked to cell adhesion, ECM stabilization, wound healing, receptor signaling, cellular proliferation, and cellular motility.