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GST3 / GSTP1 Antibody

Rabbit mAb
Catalog # AP92004

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P09211
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Deafness; DFN7; FAEES3; GST3; GSTP; Gstp1; PI; X linked 7;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	23356

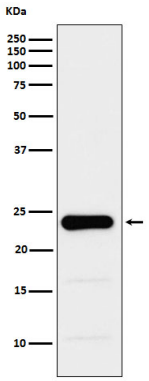
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human GST3 / GST pi
Description	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	GSTP1 (HGNC:4638)
Synonyms	FAEES3, GST3
Function	Catalyzes conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles (PubMed:1540159, PubMed:1567427, PubMed:8433974). 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). Acts as a negative regulator of ferroptosis by mediating glutathione conjugation and detoxification of 4-hydroxynonenal (4-HNE) reactive aldehyde (PubMed:38016474). Negatively regulates CDK5 activity via p25/p35 translocation to prevent neurodegeneration (PubMed:21668448).
Cellular Location	Cytoplasm. Mitochondrion. Nucleus. Note=The 83 N-terminal amino acids function as un uncleaved transit peptide, and arginine residues within it are crucial for mitochondrial localization

Images



Western blot analysis of GST3 / GST pi expression in PC3 cell lysate.

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