

ARG41063 anti-GST3 / GST pi antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes GST3 / GST pi
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	GST3 / GST pi
Species	Human
Immunogen	Purified recombinant fragment of Human GST3 / GST pi.
Conjugation	Un-conjugated
Alternate Names	DFN7; EC 2.5.1.18; GST3; GSTP; GSTP1-1; HEL-S-22; FAEES3; GST class-pi; PI; Glutathione S-transferase P

Application Instructions

Application table	Application	Dilution
	FACS	1:200 - 1:400
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	23 kDa	

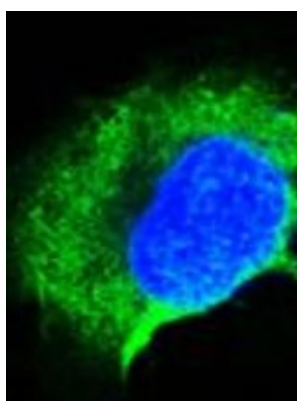
Properties

Form	Liquid
Purification	Unpurified
Buffer	Ascitic fluid and 0.03% Sodium azide.
Preservative	0.03% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

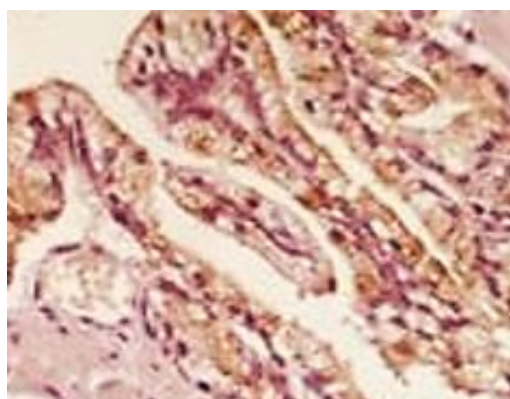
Gene Symbol	GSTP1
Gene Full Name	glutathione S-transferase pi 1
Background	Glutathione S-transferases (GSTs) are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. Based on their biochemical, immunologic, and structural properties, the soluble GSTs are categorized into 4 main classes: alpha, mu, pi, and theta. This GST family member is a polymorphic gene encoding active, functionally different GSTP1 variant proteins that are thought to function in xenobiotic metabolism and play a role in susceptibility to cancer, and other diseases. [provided by RefSeq, Jul 2008]
Function	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Regulates negatively CDK5 activity via p25/p35 translocation to prevent neurodegeneration. [UniProt]
Calculated Mw	23 kDa
Cellular Localization	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. [UniProt]

Images



ARG41063 anti-GST3 / GST pi antibody ICC/IF image

Immunofluorescence: PC-3 cells stained with ARG41063 anti-GST3 / GST pi antibody (green). DRAQ5 fluorescent DNA dye (blue).



ARG41063 anti-GST3 / GST pi antibody IHC-P image

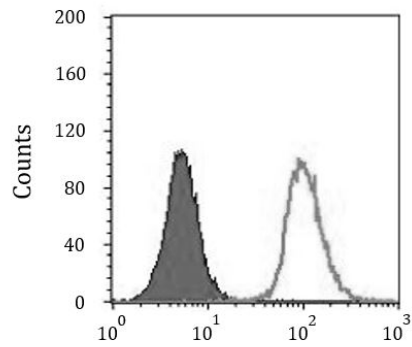
Immunohistochemistry: Paraffin-embedded Human prostate tissue stained with ARG41063 anti-GST3 / GST pi antibody.



PC3

ARG41063 anti-GST3 / GST pi antibody WB image

Western blot: PC3 cell lysate stained with ARG41063 anti-GST3 / GST pi antibody.



ARG41063 anti-GST3 / GST pi antibody FACS image

Flow Cytometry: K562 cells stained with ARG41063 anti-GST3 / GST pi antibody (right histogram) and negative control (left histogram).