

## ARG44232 anti-MPST antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes MPST
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MPST
Species	Human
Immunogen	Recombinant protein of Human MPST
Conjugation	Un-conjugated
Alternate Names	MPST; Mercaptopyruvate Sulfurtransferase; TST2; MST 2; TUM1; TRNA Thiouridin Modification Protein 1; 3-Mercaptopyruvate Sulfurtransferase; Human Liver Rhodanese; Testicular Tissue Protein Li 200; EC 2.8.1.2

### Application Instructions

Application table	Application	Dilution
	FACS	1-3 µg/1x10 <sup>6</sup> cells
	ICC/IF	5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

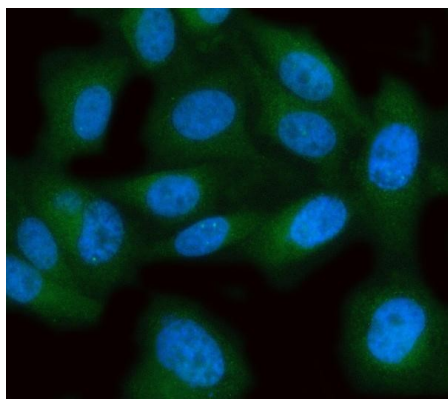
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
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.

## Bioinformation

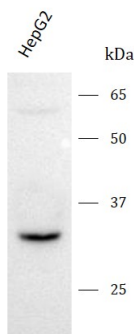
Gene Symbol	MPST
Gene Full Name	Mercaptopyruvate Sulfurtransferase
Background	<p>This protein encoded by this gene catalyzes the transfer of a sulfur ion from 3-mercaptopyruvate to cyanide or other thiol compounds. It may be involved in cysteine degradation and cyanide detoxification. There is confusion in literature between this protein (mercaptopyruvate sulfurtransferase, MPST), which appears to be cytoplasmic, and thiosulfate sulfurtransferase (rhodanese, TST, GeneID:7263), which is a mitochondrial protein. Deficiency in MPST activity has been implicated in a rare inheritable disorder known as mercaptolactate-cysteine disulfiduria (MCDU). Alternatively spliced transcript variants encoding same or different isoforms have been identified for this gene.</p>
Function	<p>Transfer of a sulfur ion to cyanide or to other thiol compounds. Also has weak rhodanese activity. Detoxifies cyanide and is required for thiosulfate biosynthesis. Acts as an antioxidant. In combination with cysteine aminotransferase (CAT), contributes to the catabolism of cysteine and is an important producer of hydrogen sulfide in the brain, retina and vascular endothelial cells. Hydrogen sulfide H<sub>2</sub>S is an important synaptic modulator, signaling molecule, smooth muscle contractor and neuroprotectant. Its production by the 3MST/CAT pathway is regulated by calcium ions.</p>
Calculated Mw	33 kDa
PTM	Acetylation, Disulfide bond, Phosphoprotein
Cellular Localization	Cytoplasm, Mitochondrion, Synapse, Synaptosome

## Images



ARG44232 anti-MPST antibody ICC/IF image

Immunofluorescence: PC3 stained with ARG44232 anti-MPST antibody at 5 µg/ml dilution.



ARG44232 anti-MPST antibody WB image

Western blot: HepG2 stained with ARG44232 anti-MPST antibody at 0.5 µg/mL dilution.