

Rabbit MPST Polyclonal Antibody | anti-MPST antibody

MPST Antibody (N-term)

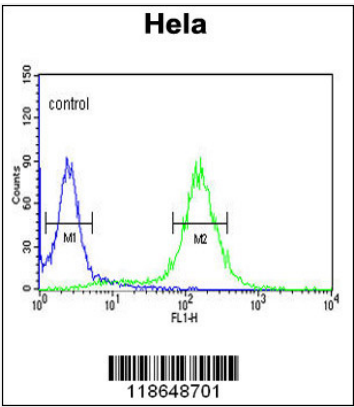
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289845	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	Western Blot, ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

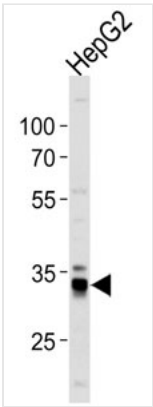
MPST; Polyclonal Antibody; MPST Antibody (N-term); 3-mercaptopyruvate sulfurtransferase; MST; TST2; anti-MPST antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MPST antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 24-53 amino acids from the N-terminal region of human MPST.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	24-53
Sequence Length	317
Applicable Applications for anti-MPST antibody	WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)
Antigen Type	Synthetic Peptide
Primary Accession	P25325
Other Accession	P97532, Q99J99
Function	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(2)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 (By similarity).
Cellular Location	Cytoplasm. Mitochondrion. Cell junction, synapse, synaptosome
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
MPST Antibody (N-term) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of lysate from HepG2 cell line, using MPST Antibody (N-term). AAA289845 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-MPST antibody	MPST 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).
Product Categories/Family for anti-MPST antibody	Metabolism; Signal Transduction
References	Billaut-Laden,I., Toxicol. Lett. 165 (2), 101-111 (2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	61835204
NCBI GeneID	4357
NCBI Accession #	NP_001013454.1; NP_001123989.1; NP_066949.2
NCBI GenBank Nucleotide #	NM_001013436.2
UniProt Accession #	P25325; O75750; Q6FHN9; A8MZ34; B3KP52; J3KPV7
Molecular Weight	33178
NCBI Official Full Name	3-mercaptopyruvate sulfurtransferase isoform 2
NCBI Official Synonym Full Names	mercaptopyruvate sulfurtransferase
NCBI Official Symbol	MPST
NCBI Official Synonym Symbols	MST; TST2; TUM1
NCBI Protein Information	3-mercaptopyruvate sulfurtransferase
UniProt Protein Name	3-mercaptopyruvate sulfurtransferase
UniProt Gene Name	MPST
UniProt Synonym Gene Names	TST2; MST
UniProt Entry Name	THTM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mpst-antibody-western-blot-flow-cytometry-elisa/289845>