10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# MPST Antibody (N-term) Blocking Peptide

**Synthetic peptide**
**Catalog # BP7652a**

## Specification

### MPST Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P25325

### MPST Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID** 4357

**Other Names**
3-mercaptopyruvate sulfurtransferase, MST, MPST, TST2

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/products/AP7652a>AP7652a</a> was selected from the N-term region of human MPST. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### MPST Antibody (N-term) Blocking Peptide - Protein Information

**Name** MPST

**Synonyms** TST2

**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.

**Cellular Location**
Cytoplasm {ECO:0000250|UniProtKB:P97532}. Mitochondrion {ECO:0000250|UniProtKB:P97532}.

Synapse, synaptosome {ECO:0000250|UniProtKB:Q99J99}

## MPST Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

## MPST Antibody (N-term) Blocking Peptide - Images

## MPST Antibody (N-term) Blocking Peptide - Background

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).

## MPST Antibody (N-term) Blocking Peptide - References

Billaut-Laden,I., Toxicol. Lett. 165 (2), 101-111 (2006)