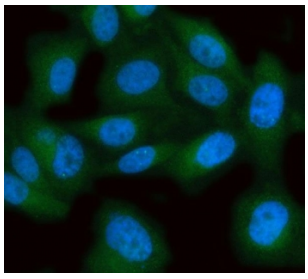
MPST Antibody / 3-Mercaptopyruvate sulfurtransferase (RQ8501)

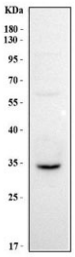
Catalog No.	Formulation	Size
RQ8501	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

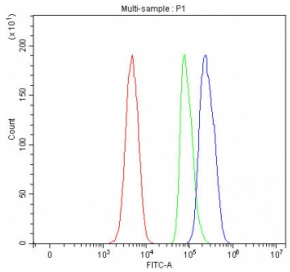
Availability	1-3 days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P25325
Localization	Cytoplasm
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This MPST antibody is available for research use only.



Immunofluorescent staining of FFPE human PC-3 cells with MPST antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human HepG2 cell lysate with MPST antibody. Predicted molecular weight: 33-35 kDa (two isoforms).



Flow cytometry testing of fixed and permeabilized human SH-SY5Y cells with MPST antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MPST antibody.

Description

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.

Application Notes

Optimal dilution of the MPST antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids A2-H297) was used as the immunogen for the MPST antibody.

Storage

After reconstitution, the MPST antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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