

For Research Use Only

# MPST Polyclonal antibody

Catalog Number: 33209-1-AP



## Basic Information

Catalog Number:

33209-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG38043

GenBank Accession Number:

BC016737

GeneID (NCBI):

4357

UNIPROT ID:

P25325

Full Name:

mercaptopyruvate sulfurtransferase

Calculated MW:

33 kDa

Observed MW:

33 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB: 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, mouse liver tissue, rat brain tissue, rat liver tissue

## Background Information

3-Mercaptopyruvate sulfurtransferase (MPST) catalyzes the desulfuration of 3-mercaptopyruvate to generate an enzyme-bound hydropersulfide. Subsequently, MPST transfers the persulfide's outer sulfur atom to proteins or small molecule acceptors. MPST activity is known to be involved in hydrogen sulfide generation, tRNA thiolation, protein urmylation and cyanide detoxification. Tissue-specific changes in MPST expression correlate with ageing and the development of metabolic disease. Deletion and overexpression experiments suggest that MPST contributes to oxidative stress resistance, mitochondrial respiratory function and the regulation of fatty acid metabolism (PMID: 33055309).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

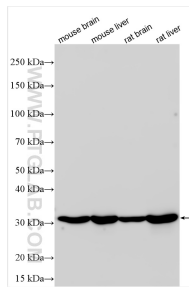
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33209-1-AP (MPST antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.