

# MPI mouse monoclonal antibody (hybridoma)

Catalog # H00004351-M

Size Up to 5 Clones

## Specification

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description           | Mouse monoclonal antibody raised against a full-length recombinant MPI.                                                                                                                                                                                                                                                                                                                                                                                      |
| Immunogen                     | MPI (NP_002426.1, 1 a.a. ~ 423 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                                                                                                                                                                                                                                                                                                                         |
| Sequence                      | MAAPRVFPLSCAVQQYAWGKMGSNSEVARLLASSDPLAQIAEDKPYAELWMGTHPRGDAKILD<br>NRISQKTL SQWIAENQDSL GSKVKDTFNGNLPFLFKVLSVETPLSIQAHPNKELAEKLHLQAPQHY<br>PDANHKPEMAIALTPFQGLCGFRPVEEIVTLKKVPEFQFLIGDEAATHLKQTMSHDSQAVASSL<br>QSCFSLMKSEKKVVVEQLNLLVKRISQQAAAAGNNMEDIFGELLLQLHQQYPGDIGCFAYFLNLLT<br>LKPGEAMFLEANVPHAYLKGDCVECMACSDNTVRAGLTPKFIDVPTLCEMLSYPSSSKDRLFL<br>PTRSQEDPYLSYDPPVPDFTIMKTEVPGSVTEYKVLALDSASILLMVQGTVIASPTTQTPIPLQRG<br>GVLFIGANESVSLKLTPEPKDLLIFRACLL |
| Host                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reactivity                    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Interspecies Antigen Sequence | Mouse (85); Rat (86)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Quality Control Testing       | Antibody reactivity and specificity confirmed by ELISA and Western Blot.                                                                                                                                                                                                                                                                                                                                                                                     |
| Deliverables                  | Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.                                                                                                                                                                                                                                                                                                                                                                      |
| Note                          | Customer should check the viability of the hybridomas within one month from the date of receipt. Fee -for-service of long term hybridoma storage can be performed upon customer's request.                                                                                                                                                                                                                                                                   |

## Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

## Gene Info — MPI

Entrez GeneID [4351](#)

GeneBank Accession# [NM\\_002435.1](#)

Protein Accession# [NP\\_002426.1](#)

Gene Name MPI

Gene Alias FLJ39201, PMI, PMI1

Gene Description mannose phosphate isomerase

Omim ID [154550 602579](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** Phosphomannose isomerase catalyzes the interconversion of fructose-6-phosphate and mannose-6-phosphate and plays a critical role in maintaining the supply of D-mannose derivatives, which are required for most glycosylation reactions. Mutations in the MPI gene were found in patients with carbohydrate-deficient glycoprotein syndrome, type Ib. [provided by RefSeq]

**Other Designations** Mannosephosphate isomerase (phosphomannose isomerase 1)|mannose-6- phosphate isomerase

## Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Fructose and mannose metabolism](#)
- [Metabolic pathways](#)

## Disease

- [Genetic Predisposition to Disease](#)

- [Ovarian Neoplasms](#)