

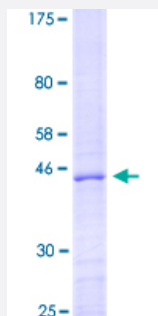
Full-Length

# MBP (Human) Recombinant Protein (P01)

Catalog # H00004155-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human MBP full-length ORF (NP\_001020263.1, 1 a.a. - 160 a.a.) recombinant protein with GST tag at N-terminal.

### Sequence

MASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFGGDRGAPKRGSGKDSHHP  
ARTAHYGSLPQKSHGRTQDENPVVHFFKNMTPRTPPPSQGKAEGQRPFGYGGGRASDYKSAH  
KGFKGVDAQGTLSKIFKLGGDRSRSGSPMARR

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

43.7

### Interspecies Antigen Sequence

Mouse (70)

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

### Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Note

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — MBP

Entrez GeneID [4155](#)

GeneBank Accession# [NM\\_001025092.1](#)

Protein Accession# [NP\\_001020263.1](#)

Gene Name MBP

Gene Alias MGC99675

Gene Description myelin basic protein

Omim ID [159430](#)

Gene Ontology [Hyperlink](#)

## Gene Summary

The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, MBP-related transcripts are also present in the bone marrow and the immune system. These mRNAs arise from the long MBP gene (otherwise called "Golli-MBP") that contains 3 additional exons located upstream of the classic MBP exons. Alternative splicing from the Golli and the MBP transcription start sites gives rise to 2 sets of MBP-related transcripts and gene products. The Golli mRNAs contain 3 exons unique to Golli-MBP, spliced in-frame to 1 or more MBP exons. They encode hybrid proteins that have N-terminal Golli aa sequence linked to MBP aa sequence. The second family of transcripts contain only MBP exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that the MBP transcription unit is an integral part of the Golli transcription unit and that this arrangement is important for the function and/or regulation of these genes. [provided by RefSeq]

## Other Designations

Golli-mbp|OTTHUMP00000174383|OTTHUMP00000174384|OTTHUMP00000174385|OTTHUMP00000174386

## Disease

- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Dermatitis](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Hepatitis B](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Sclerosis](#)
- [Schizophrenia](#)
- [Tuberculosis](#)