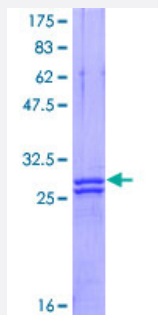


# PLP1 (Human) Recombinant Protein (Q01)

Catalog # H00005354-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                          |
|--------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human PLP1 partial ORF ( NP_000524, 177 a.a. - 232 a.a.) recombinant protein with GST-tag at N-terminal. |
| <b>Sequence</b>                      | YFNTWTTCQSI AFPSKTSASIGSLCADARMYGVL PWNAFPGKVCGSNLLSICKTAE                                               |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                    |
| <b>Theoretical MW (kDa)</b>          | 31.9                                                                                                     |
| <b>Interspecies Antigen Sequence</b> | Mouse (100); Rat (100)                                                                                   |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                    |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                        |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                              |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                 |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                          |
| <b>Note</b>                          | 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 — PLP1

Entrez GeneID [5354](#)

GeneBank Accession# [NM\\_000533](#)

Protein Accession# [NP\\_000524](#)

Gene Name PLP1

Gene Alias HLD1, MMPL, PLP, PLP/DM20, PMD, SPG2

Gene Description proteolipid protein 1

Omim ID [300401 312080 312920](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes a transmembrane proteolipid protein that is the predominant myelin protein present in the central nervous system. It may play a role in the compaction, stabilization, and maintenance of myelin sheaths, as well as in oligodendrocyte development and axonal survival. Mutations in this gene cause X-linked Pelizaeus-Merzbacher disease and spastic paraplegia type 2. Alternatively spliced transcript variants encoding distinct isoforms or having different 5' UTRs, have been identified for this gene. [provided by RefSeq]

**Other Designations** OTTHUMP00000023761|OTTHUMP00000023762|lipophilin|major myelin proteolipid protein

## Publication Reference

- [Antigen microarrays identify unique serum autoantibody signatures in clinical and pathologic subtypes of multiple sclerosis.](#)

Quintana FJ, Farez MF, Viglietta V, Iglesias AH, Merbl Y, Izquierdo G, Lucas M, Basso AS, Khoury SJ, Lucchinetti CF, Cohen IR, Weiner HL.

PNAS 2008 Nov; 105(48):18889.

Application: Array, Human, Serum from patients with Multiple sclerosis (MS)

## Disease

- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Hereditary Central Nervous System Demyelinating Diseases](#)
- [Multiple Sclerosis](#)
- [Spastic Paraplegia](#)