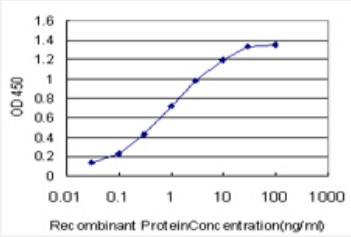
# PLP1 monoclonal antibody (M05), clone 4H8

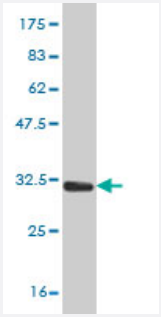
Catalog # H00005354-M05 Size 100 ug

## Applications




### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PLP1 is approximately 0.03ng/ml as a capture antibody.




Western Blot detection against Immunogen (31.9 KDa) .

## Specification

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|---|---|
| **Product Description** | Mouse monoclonal antibody raised against a partial recombinant PLP1. |
| **Immunogen** | PLP1 (NP_000524, 177 a.a. ~ 232 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Sequence** | YFNTWTTCQSIAFPSKTSASIGSLCADARMYGVLPWNAFPGKVCGSNLLSICKTAE |
| **Host** | Mouse |
| **Reactivity** | Human |
| **Interspecies Antigen Sequence** | Mouse (100); Rat (100) |

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|---|---|
| **Isotype** | IgG2a Kappa |
| **Quality Control Testing** | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (31.9 KDa) . |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged PLP1 is approximately 0.03ng/ml as a capture antibody.

  Protocol Download

- ELISA

## 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 pr esent in the central nervous system. It may play a role in the compaction, stabilization, and mainte nance of myelin sheaths, as well as in oligodendrocyte development and axonal survival. Mutation s in this gene cause X-linked Pelizaeus-Merzbacher disease and spastic paraplegia type 2. Alter natively spliced transcript variants encoding distinct isoforms or having different 5' UTRs, have be en identified for this gene. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000023761\|OTTHUMP00000023762\|lipophilin\|major myelin proteolipid protein |

## Disease

- Disease Progression
- Genetic Predisposition to Disease
- Hereditary Central Nervous System Demyelinating Diseases
- Multiple Sclerosis
- Spastic Paraplegia