

PLP1 Antibody (monoclonal) (M05)**Mouse monoclonal antibody raised against a partial recombinant PLP1.****Catalog # AT3346a****Specification**

PLP1 Antibody (monoclonal) (M05) - Product Information

Application	WB, E
Primary Accession	P60201
Other Accession	NM_000533
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	30077

PLP1 Antibody (monoclonal) (M05) - Additional Information**Gene ID** 5354**Other Names**

Myelin proteolipid protein, PLP, Lipophilin, PLP1, PLP

Target/Specificity

PLP1 (NP_000524, 177 a.a. ~ 232 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

PLP1 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

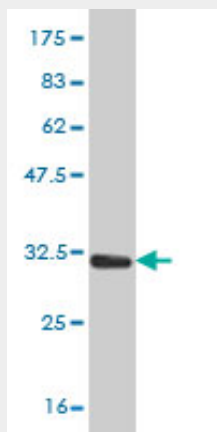
PLP1 Antibody (monoclonal) (M05) - Protocols

Provided below are standard protocols that you may find useful for product applications.

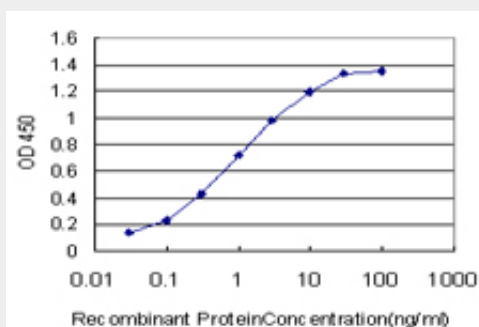
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PLP1 Antibody (monoclonal) (M05) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.9 KDa) .



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

PLP1 Antibody (monoclonal) (M05) - Background

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.

PLP1 Antibody (monoclonal) (M05) - References

Developmental and degenerative features in a complicated spastic paraplegia. Manzini MC, et al. Ann Neurol, 2010 Apr. PMID 20437587. Magnetic resonance imaging of a unique mutation in a family with Pelizaeus-Merzbacher disease. Miller E, et al. Am J Med Genet A, 2010 Mar. PMID 20186781. Novel neuronal proteolipid protein isoforms encoded by the human myelin proteolipid protein 1 gene. Sarret C, et al. Neuroscience, 2010 Mar 17. PMID 20036320. Hereditary spastic paraplegia caused by the PLP1 'rumpshaker mutation'. Svenstrup K, et al. J Neurol Neurosurg Psychiatry, 2010 Jun. PMID 19955111. Differences in endoplasmic-reticulum quality control determine the cellular response to disease-associated mutants of proteolipid protein. Roboti P, et al.

J Cell Sci, 2009 Nov 1. PMID 19825935.