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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
E~~N/A

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.

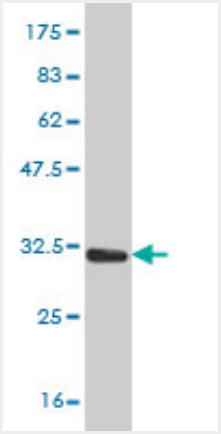
PLP1 Antibody (monoclonal) (M05) - Protocols

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

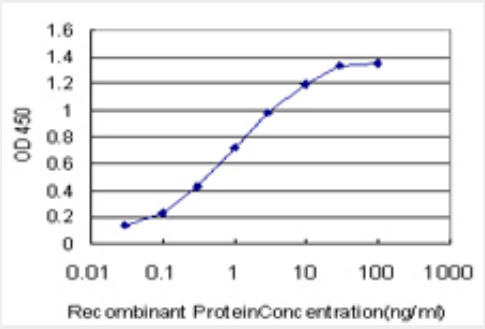
- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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.