

PLP1 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant PLP1.

Catalog # AT3346a

Product Information

Application	WB, E
Primary Accession	P60201
Other Accession	NM_000533
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4H8
Calculated MW	30077

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.

Background

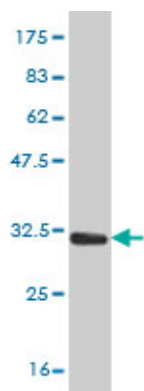
This gene encodes a transmembrane proteolipid protein that is the predominant myelin protein present in the central nervous system. It may play a role in the compaction, stabilization, and maintenance of myelin sheaths, as well as in oligodendrocyte development and axonal survival. Mutations in this 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.

References

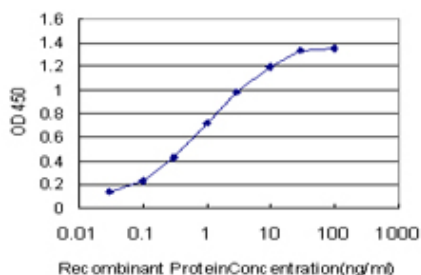
Developmental and degenerative features in a complicated spastic paraplegia. Manzini MC, et al. Ann Neurol, 2010 Apr. PMID 20437587. Magnetic resonance imaging of a unique mutation in a family with

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.

Images



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.