TECHNICAL DATA SHEET

PLP1 MAb

Catalog Number: CSB0243

DESCRIPTION

Target:	PLP1
Target aliases:	GPM6C, HLD1, MMPL, PLP, PLP/DM20, PMD, SPG2
Fc isotype:	Mouse IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human, Mouse, Cow
Extracellular epitope:	Yes
Fc modifications:	C-terminal Avitag[1], disabled Fc-γ receptor binding[2]
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding.

PLP1 TARGET INFORMATION

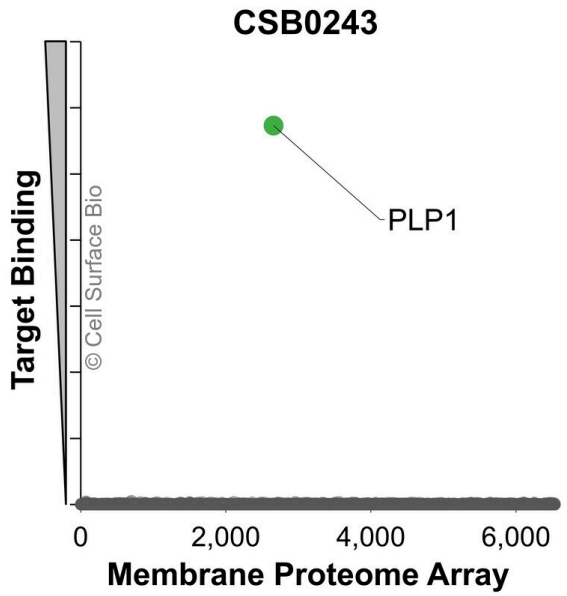
Proteolipid protein 1 (PLP1) is a major component of myelin in the central nervous system, playing a critical role in the formation and maintenance of myelin sheaths. This protein is essential for proper neuronal function and has been implicated in several demyelinating disorders, making it a significant focus in neurological research. PLP1's expression is predominantly found in oligodendrocytes, underscoring its importance in myelin biology. (NCBI Gene: 5354, UniProtKB/Swiss-Prot: P60201) Other names: GPM6C, HLD1, MMPL, PLP, PLP/DM20, PMD, SPG2

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

Membrane Proteome Specificity



The specificity of PLP1 Monoclonal Antibody (CSB0243) was tested on the Membrane Proteome Array™ and shown to be specific for human PLP1.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed Human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

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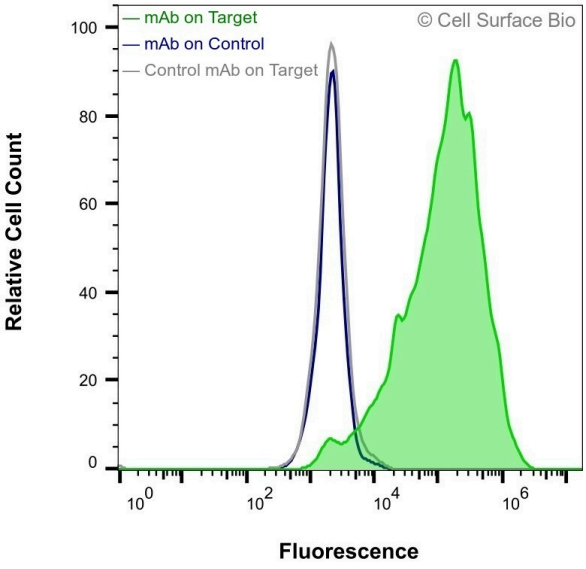
Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



JS-1 cells transiently transfected with human PLP1 were stained with PLP1 Monoclonal Antibody (CSB0243) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. JS-1 cells transiently transfected with an empty control vector were also stained with PLP1 Monoclonal Antibody (CSB0243) (blue).