ARG22612
anti-Myelin Proteolipid Protein antibody [plpc1]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [plpc1] recognizes Myelin Proteolipid Protein This antibody recognizes myelin proteolipid protein (PLP) in many mammalian species (Stoffel et al. 1985). Clone plpc1 also recognizes the alternative PLP splice variant lacking part of the cytoplasmic domain (amino acids 117-151), known as DM20 (Simons et al. 1987) .PLP encodes the major protein components of compact CNS myelin and mutations in the PLP gene can lead to severe dysmyelinating disease (Hudson et al. 1989).Mouse anti myelin proteolipid protein, clone plpc1 has proved a useful immunohistochemical tool for the study of central nervous system injury in patients with multiple sclerosis (Seewan et al. 2011, Huizinga et al. 2011)
Tested Reactivity	Hu, Ms, Rat, Bov
Predict Reactivity	Rb
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	plpc1
Isotype	IgG2a
Target Name	Myelin Proteolipid Protein
Species	Bovine
Immunogen	Synthetic peptide GRGTKF corresponding to C terminal region of myelin proteolipid protein.
Conjugation	Un-conjugated
Alternate Names	MMPL; PLP; SPG2; PMD; Myelin proteolipid protein; GPM6C; Lipophilin; PLP/DM20; HLD1

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
ICC/IF	Assay-dependent
IHC-Fr	Assay-dependent
IHC-P	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein A.

Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PLP1
Gene Full Name	proteolipid protein 1
Background	This gene encodes a transmembrane proteolipid protein that is the predominant component of myelin. The encoded protein 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 Pelizaeus-Merzbacher disease and spastic paraplegia type 2. Alternatively splicing results in multiple transcript variants, including the DM20 splice variant. [provided by RefSeq, Feb 2015]
Function	This is the major myelin protein from the central nervous system. It plays an important role in the formation or maintenance of the multilamellar structure of myelin. [UniProt]
Calculated Mw	30 kDa