Anti-Myelin Basic Protein (region Thr98) [98/P12]

Catalogue number: 153644
Sub-type: Primary antibody
Images:

Contributor

Inventor:
Institute: BioServ UK Ltd
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Myelin Basic Protein (region Thr98) [98/P12]

Alternate name: Myelin basic protein, MBP, 2 kDa microtubule-stabilizing protein, Myelin A1 protein

Class: Monoclonal
Conjugate: Unconjugated
Description: The phosphorylation of myelin basic protein (MBP) has been shown to decrease the ability of MBP to aggregate lipid vesicles and consequently destabilising the compact structure of myelin, a destruction that has been observed in demyelinating diseases such as Multiple Sclerosis. (Yon, M et al. 1995) Clone 98/P12 is a useful detector of phosphorylated MBP by binding to Thr98 of human MBP in the phosphorylated state.
Purpose: Marker
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype: IgG2a
Reactivity: Human
Selectivity:
Host: Mouse
Immunogen: Synthetic peptide corresponding to human MBP when phosphorylated at threonine 98
Immunogen UNIPROT ID:
Sequence:
Growth properties:
Production details:

Formulation:
Recommended controls: Brain tissue
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Myelin Basic Protein (region Thr98)

Target alternate names:

Target background: The phosphorylation of myelin basic protein (MBP) has been shown to decrease the ability of MBP to aggregate lipid vesicles and consequently destabilising the compact structure of myelin, a destruction that has been observed in demyelinating diseases such as Multiple Sclerosis. (Yon, M et al. 1995) Clone 98/P12 is a useful detector of phosphorylated MBP by binding to Thr98 of human MBP in the phosphorylated state.

Molecular weight: 13-21 kDa

Ic50:

Applications

Application: ELISA ; WB
Application notes:

Handling

Format: Liquid
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Grigoletto et al. 2017. Acta Neuropathol Commun. 5(1):37. PMID: 28482862. ; Higher levels of myelin phospholipids in brains of neuronal a-Synuclein transgenic mice precede myelin loss. ; Friess et al. 2016. Cell Calcium. 60(5):322-330. PMID: 27417499. ; Friess et al. 2016. Cell Calcium. 60(5):322-330. PMID: 27417499. ; Fernandes et al. 2016. J Control Release. 238:300-310. PMID: 27369863. ; Isoda et al. 2016. Neurosci Res. 110:18-28. PMID: 27083781. ; Lim et al. 2016. Antioxidants (Basel). 5(3):. PMID: 27618111. ; Protandim Protects Oligodendrocytes against an Oxidative Insult. ; Intracellular ion signaling influences myelin basic protein synthesis in oligodendrocyte precursor cells. ; Part II: Fn delivery of a neurotherapeutic gene to neural stem cells using minicircle DNA and nanoparticles: Translational advantages for regenerative neurology. ; Robust production of human neural cells by establishing neuroepithelial-like stem cells from peripheral blood mononuclear cell-derived feeder-free iPSCs under xeno-free conditions. ; Crawford et al. 2016. Am J Pathol. 186(3):511-6. PMID: 26773350. ; Pre-Existing Mature Oligodendrocytes Do Not Contribute to Remyelination following Toxin-Induced Spinal Cord Demyelination. ; Natrajan et al. 2015. Brain. 138(Pt 12):3581-97. PMID: 26463675. ; Retinoid X receptor activation reverses age-related deficiencies in myelin debris phagocytosis and remyelination. ; HDAC1/2-Dependent P0 Expression Maintains Paranodal and Nodal Integrity Independently of Myelin Stability through Interactions with Neurofascins. ; SncRNA715 Inhibits Schwann Cell Myelin Basic Protein Synthesis. ; Meade et al. 2015. Brain Res. 1611:101-13. PMID: 25842371. ; Quantitative proteomic analysis of the brainstem following lethal sarin exposure. ; Brgger et al. 2015. PLoS Biol. 13(9):e1002258. PMID: 26406915. ; Mller et al. 2015. PLoS One. 10(8):e0136900. PMID: 26317513. ; Pusic et al. 2014. J Neuroimmunol. 266(1-2):12-23. PMID: 24275061. ; IFN?-stimulated dendritic cell exosomes as a potential therapeutic for remyelination. ; Horiuchi et al. 2012. Neurobiol Aging. 33(3):499-509. PMID: 20594620. ; Time-lapse imaging of the dynamics of CNS glial-axonal interactions in vitro and ex vivo. ; Ioannidou et al. 2012. PLoS One. 7(1):e30775. PMID: 22303455. ; Monk et al. 2011. Development. 138(13):2673-80. PMID: 21613327. ; Gpr126 is essential for peripheral nerve development and myelination in mammals. ; Pohl et al. 2011. J Neurosci. 31(3):1069-80. PMID: 21248132. ; Genetically induced adult oligodendrocyte cell death is associated with poor myelin clearance, reduced remyelination, and axonal damage. ; Savvaki et al. 2010. J Neurosci. 30(42):13943-54. PMID: 20962216. ; The expression of TAG-1 in glial cells is sufficient for the formation of the juxtaparanodal complex and the phenotypic rescue of tag-1 homozygous mutants in the CNS. ; Amyloid ?1-42 oligomer inhibits myelin sheet formation in vitro. ; Kawai et al. 2009. Eur J Neurosci. 30(11):2030-41. PMID: 20128842. ; Maintenance of the relative proportion of oligodendrocytes to axons even in the absence of BAX and BAK. ; Relucio et al. 2009. J Neurosci. 29(38):11794-806. PMID: 19776266. ; Laminin alters fyn regulatory mechanisms and promotes oligodendrocyte development. ; Homchaudhuri et al. 2009. Biochemistry. 48(11):2385-93. PMID: 19178193. ; Influence of membrane surface charge and post-translational modifications to myelin basic protein on its ability to tether the Fyn-SH3 domain to a membrane in vitro. ; Matsuo et al. 1997. Am J Pathol. 150(4):1253-66. PMID: 9094982. ; Unmasking of an unusual myelin basic protein epitope during the process of myelin degeneration in humans: a potential mechanism for the generation of autoantigens. ; Groome et al. 1988. J Neuroimmunol. 19(4):305-15. PMID: 2459156. ; New monoclonal antibodies reactive with defined sequential epitopes in human myelin basic protein. ; Hruby et al. 1987. Mol Immunol. 24(12):1359-64. PMID: 2448611. ; Monoclonal antibodies reactive

with myelin basic protein. ; Groome et al. 1986. J Neuroimmunol. 12(4):253-64. PMID: 2428830. ; Region-specific immunoassays for human myelin basic protein. ; Elfman et al. 1986. J Neurochem. 46(2):509-15. PMID: 2416877. ; Rat and mouse monoclonal antibodies to human myelin basic protein.