

Resource Summary Report

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Myelin Basic Protein antibody [12] - Oligodendrocyte Marker

RRID:AB_305869

Type: Antibody

Proper Citation

(Abcam Cat# ab7349, RRID:AB_305869)

Antibody Information

URL: http://antibodyregistry.org/AB_305869

Proper Citation: (Abcam Cat# ab7349, RRID:AB_305869)

Target Antigen: Myelin Basic Protein antibody [12] - Oligodendrocyte Marker

Host Organism: rat

Clonality: monoclonal

Comments:

Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSEApplications: ELISA, IHC-FoFr, IHC-Fr, IHC-P, RIA, WB; Immunohistochemistry; Chromatography; Immunohistochemistry - fixed; Immunofluorescence; ELISA; Immunohistochemistry - frozen; Radioimmunoassay

Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE

Consolidation on 6/2023: AB_308569

Antibody Name: Myelin Basic Protein antibody [12] - Oligodendrocyte Marker

Description: This monoclonal targets Myelin Basic Protein antibody [12] - Oligodendrocyte Marker

Target Organism: bovine, mouse, rabbit, sheep, human, rat, porcine, canine, zebrafishfish,

human, mouse, rat, cow, dog, pig, rabbit, sheep

Defining Citation: [PMID:20209960](https://pubmed.ncbi.nlm.nih.gov/20209960/)

Antibody ID: AB_305869

Vendor: Abcam

Catalog Number: ab7349

Ratings and Alerts

- Independent validation by the NYU Langone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE - NYU Langone's Center for Biospecimen Research and Development
<https://med.nyu.edu/research/scientific-cores-shared-resources/center-biospecimen-research-development>

No alerts have been found for Myelin Basic Protein antibody [12] - Oligodendrocyte Marker.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 74 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Miyazaki Y, et al. (2024) Oligodendrocyte-derived LGI3 and its receptor ADAM23 organize juxtaparanodal Kv1 channel clustering for short-term synaptic plasticity. *Cell reports*, 43(1), 113634.

Ma T, et al. (2024) Mea6/cTAGE5 cooperates with TRAPPC12 to regulate PTN secretion and white matter development. *iScience*, 27(3), 109180.

Li Z, et al. (2024) Akt/mTOR Pathway Agonist SC79 Inhibits Autophagy and Apoptosis of Oligodendrocyte Precursor Cells Associated with Neonatal White Matter Dysplasia. *Neurochemical research*, 49(3), 670.

Gao C, et al. (2024) Neuromuscular organoids model spinal neuromuscular pathologies in C9orf72 amyotrophic lateral sclerosis. *Cell reports*, 43(3), 113892.

Heller DT, et al. (2024) Astrocyte ensheathment of calyx-forming axons of the auditory brainstem precedes accelerated expression of myelin genes and myelination by

oligodendrocytes. *The Journal of comparative neurology*, 532(2), e25552.

Rowland ME, et al. (2023) Systemic and intrinsic functions of ATRX in glial cell fate and CNS myelination in male mice. *Nature communications*, 14(1), 7090.

Moir RD, et al. (2023) Molecular basis of neurodegeneration in a mouse model of Polr3-related disease. *bioRxiv : the preprint server for biology*.

Zhang T, et al. (2023) Autophagy collaborates with apoptosis pathways to control oligodendrocyte number. *Cell reports*, 42(8), 112943.

Tsuchikawa Y, et al. (2023) Deficiency of MicroRNA-23-27-24 Clusters Exhibits the Impairment of Myelination in the Central Nervous System. *Neural plasticity*, 2023, 8938674.

Pan L, et al. (2023) Oligodendrocyte-lineage cell exocytosis and L-type prostaglandin D synthase promote oligodendrocyte development and myelination. *eLife*, 12.

Buller S, et al. (2023) Median eminence myelin continuously turns over in adult mice. *Molecular metabolism*, 69, 101690.

Sha L, et al. (2023) LHPP-mediated inorganic pyrophosphate hydrolysis-driven lysosomal acidification in astrocytes regulates adult neurogenesis. *Cell reports*, 42(8), 112975.

Wang R, et al. (2023) A novel phenotype of B cells associated with enhanced phagocytic capability and chemotactic function after ischemic stroke. *Neural regeneration research*, 18(11), 2413.

Chen J, et al. (2023) MYPT1SMKO Mice Function as a Novel Spontaneous Age- and Hypertension-Dependent Animal Model of CSVD. *Translational stroke research*.

Huang H, et al. (2023) Disruption of neuronal RHEB signaling impairs oligodendrocyte differentiation and myelination through mTORC1-DLK1 axis. *Cell reports*, 42(7), 112801.

Suhail H, et al. (2023) An early glycolysis burst in microglia regulates mitochondrial dysfunction in oligodendrocytes under neuroinflammation. *iScience*, 26(10), 107921.

Pinatel D, et al. (2023) A class-specific effect of dysmyelination on the excitability of hippocampal interneurons. *eLife*, 12.

Balraj A, et al. (2022) Refinement of axonal conduction and myelination in the mouse optic nerve indicate an extended period of postnatal developmental plasticity. *Developmental neurobiology*, 82(4), 308.

Cheng N, et al. (2022) STAG2 promotes the myelination transcriptional program in oligodendrocytes. *eLife*, 11.

Zhang F, et al. (2022) MicroRNA-21-5p agomir inhibits apoptosis of oligodendrocyte precursor cell and attenuates white matter injury in neonatal rats. *Brain research bulletin*, 189, 139.