Anti-Oligodendrocyte Marker O1 Alexa Fluor® 647 (To Be Discontinued. Refer to Cat. 50-6506)

Catalog Number: 51-6506

Product Information

**Contents:** Anti-Oligodendrocyte Marker O1 Alexa Fluor® 647 (To Be Discontinued. Refer to Cat. 50-6506)

**Catalog Number:** 51-6506
**Clone:** O1
**Concentration:** 0.2 mg/mL
**Host/Isotype:** Mouse IgM

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial
**Use By:** Refer to vial

Description

This O1 monoclonal antibody reacts with galactocerebroside and other lipids found on late oligodendrocyte precursors. O1 has been reported to react to all species tested (rat, mouse, human, chicken). Oligodendrocytes function as myelin-producing cells within the central nervous system ensheathing the axons of neurons with myelin in order to facilitate rapid axonal conduction. O1 and O4 monoclonal antibodies serve as stage-specific markers of oligodendrocyte development with O4 marking early oligodendrocyte progenitors and O1-labeling late oligodendrocyte progenitors. O4-positive cells differentiate to become O1-positive, which can in turn become mature oligodendrocytes.

Applications Reported

This O1 antibody has been reported for use in flow cytometric analysis, immunohistochemical staining of frozen tissue sections, and immunocytochemistry.

Applications Tested

This O1 antibody has been tested by immunocytochemistry on formaldehyde-fixed, differentiated OLN93 cells and can be used at less than or equal to 20 μg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References


Mela A, Goldman JE. The tetraspanin KAI1/CD82 is expressed by late-lineage oligodendrocyte precursors and may function to restrict precursor migration and promote oligodendrocyte differentiation and myelination. J Neurosci. 2009 Sep 9;29(36):11172-81. (O1, ICC)


Sommer I, Schachner M. Monoclonal antibodies (O1 to O4) to oligodendrocyte cell surfaces: an immunocytological study in the central nervous system. Dev Biol. 1981 Apr 30;83(2):311-27.

Related Products

50-4752 Mouse IgM Isotype Control eFluor® 660

Legal

Alexa Fluor® and Pacific Blue® are registered trademarks of and licensed under patents assigned to Molecular Probes, Inc. for research use only. This product is subject to an agreement between Molecular Probes, Inc. and eBioscience, and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications and corresponding foreign equivalents, owned by Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corp). The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product for life science research or as an ASR. The buyer cannot use this product for manufacturing or for any other screening (specifically including use in combination with microarrays or High Content Screening) or testing purpose, other than as an ASR. For information on purchasing a license to this product for purposes other than life science research or use as an ASR, contact Molecular Probes, Inc.

Not for further distribution without written consent.
Copyright © 2000-2012 eBioscience, Inc.
Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com