

# Oligodendrocyte Marker O1 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgM Clone # O1

Catalog Number: FAB1327R

100 µg

## DESCRIPTION

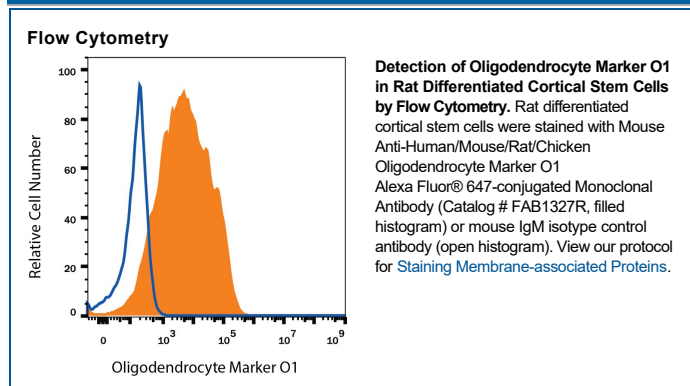
<b>Species Reactivity</b>	Human/Mouse/Rat/Chicken
<b>Specificity</b>	Detects human, mouse, rat and chicken Oligodendrocyte Marker O1.
<b>Source</b>	Monoclonal Mouse IgM Clone # O1
<b>Purification</b>	IgM-specific Affinity-purified from hybridoma culture supernatant
<b>Immunogen</b>	Bovine brain corpus callosum white matter
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

Oligodendrocytes are myelinating cells in the central nervous system (CNS) that form the myelin sheath of axons to support rapid nerve conduction. Oligodendrocyte Marker O1 recognizes a glycolipid antigen that is expressed on the surface of late oligodendrocyte progenitors. It has been commonly used in conjunction with Oligodendrocyte Marker O4 antibody to define immature oligodendrocyte (1-6). Progenitors that are O4 antigen-positive and O1 antigen-negative have been shown to differentiate into O1 antigen-positive oligodendrocytes *in vitro* (7).

### References:

- Schachner, M. *et al.* (1981) Dev. Biol. **83**:328.
- Bansal, R. *et al.* (1989) J. Neurosci. Res. **24**:548.
- Sontheimer, H. *et al.* (1989) Neuron **2**:1135.
- Hardy, R.J. and V.L. Friedrich Jr. (1996) Development **122**:2059.
- Reynolds, R. and R. Hardy (1997) J. Neurosci. Res. **47**:455.
- Ono, K. *et al.* (1997) J. Neurosci. Res. **48**:212.
- Cai, Z. *et al.* (2001) Brain Res. **898**:126.

# Oligodendrocyte Marker O1 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgM Clone # O1

Catalog Number: FAB1327R

100 µg

## PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.