

## DESCRIPTION

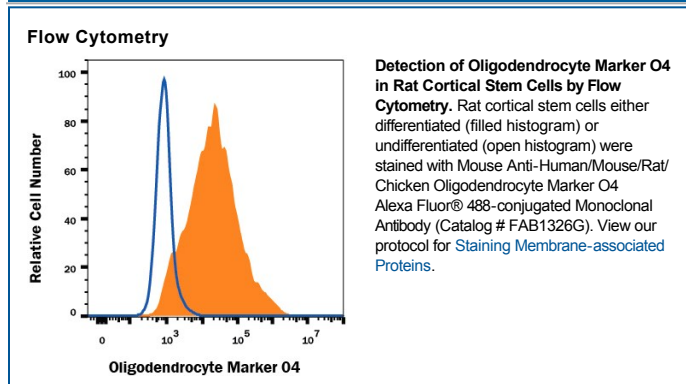
<b>Species Reactivity</b>	Human/Mouse/Rat/Chicken
<b>Specificity</b>	Detects human, mouse, rat, and chicken Oligodendrocyte Marker O4.
<b>Source</b>	Monoclonal Mouse IgM Clone # O4
<b>Purification</b>	IgM-specific Affinity-purified from hybridoma culture supernatant
<b>Immunogen</b>	Bovine brain corpus callosum white matter
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	5 µL/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> ● 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

Oligodendrocytes are myelinating cells in the central nervous system (CNS) and form the myelin sheath of axons to support rapid nerve conduction. Oligodendrocyte Marker O4 is an antigen on the surface of oligodendrocyte progenitors (1, 2). It has been commonly used as the earliest recognized marker specific for the oligodendroglial lineage (3-8).

### References:

- Schachner, M. *et al.* (1981) *Dev. Biol.* **83**:328.
- Bansal, R. *et al.* (1989) *J. Neurosci. Res.* **24**:548.
- Bansal, R. and Pfeiffer, S.E. (1989) *Proc. Natl. Acad. Sci. USA* **86**:6181.
- Gard, A. *et al.* (1995) *Dev. Biol.* **167**:596.
- Reynolds, R. and Hardy, R. (1997) *J. Neurosci. Res.* **47**:455.
- Ono, K. *et al.* (1997) *J. Neurosci. Res.* **48**:212.
- Pang, Y. *et al.* (2000) *J. Neurosci. Res.* **62**:510.
- Cai, Z. *et al.* (2001) *Brain Res.* **898**:126.

**PRODUCT SPECIFIC NOTICES**

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