NEUROMICS

# Oligodendrocyte Marker O1 Data Sheet

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| **Catalog Number:** | MO15001 | **Host:** | Mouse |
| **Product Type:** | Mouse monoclonal<br>Mouse IgM purified by anti-IgM chromatography | **Species Reactivity:** | Rat, Human, Mouse, Chicken |
| **Immunogen Sequence:** | White matter of corpus callosum from bovine brain | **Format:** | Lyophilized<br>0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose. |

**Applications:** **Immunohistochemistry:** 1-3 µg/mL fixed; 5 µg/mL unfixed, frozen.

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

**Specificity:** The monoclonal antibody O1 reacts with a glycolipid antigen that is expressed on the surface of late oligodendrocyte progenitors.

**Storage:** Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

## Application Notes

**Reconstitution:** Reconstitute with sterile PBS.
If 50 µL of PBS is used, the antibody concentration will be 1 mg/mL.

**Immunohistochemistry:** Antiserum was used on fixed and unfixed tissue.

This antibody can be used with the appropriate secondary reagents at 1 - 3 µg/mL to detect Oligodendrocyte marker O1 in fixed cells. Cells were fixed with 4% paraformaldehyde in PBS at room temperature for 20 min., and then blocked with 10% normal donkey serum and 1% BSA in PBS at room temperature for 45 min. After blocking, cells were incubated with diluted primary antibody overnight at 4° C and then with appropriate IgM secondary antibody at room temperature for an hour. Between each step, cells were washed with PBS + 0.1% BSA. This antibody can also be used in unfixed, shock frozen tissue at the concentration of 5 µg/mL.

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