Oligodendrocyte Marker O4

Catalog Number: MO15002

Host: Mouse

Product Type: Mouse monoclonal

Species Reactivity: Rat, Human, Mouse, Chicken

Immunogen Sequence: White matter of corpus callosum from bovine brain

Format: lyophilized 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose

Reconstitute w/ sterile PBS. If 50ul is used, the concentration will be 1 mg/ml.

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: Oligodendrocytes are myelinating cells in the central nervous system (CNS) that form the myelin sheath of axons to support rapid nerve conduction. The monoclonal antibody O4 reacts with an unidentified antigen that appears on the surface of oligodendrocyte progenitors.2, 3 It has been commonly used as the earliest recognized marker specific for the oligodendroglial lineage.

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

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 O4 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 Rodamine Red coupled anti-mouse IgM or other appropriate secondary antibody at room temperature in the dark 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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