Anti-Oligodendrocyte Marker
O4 Antibody, Clone 81

Antibodies
Mouse monoclonal IgM antibody against human, mouse, rat oligodendrocyte marker O4, unconjugated
Catalog #60053 50 µg 0.5 mg/mL

Product Description
O-Antigens are expressed on oligodendrocytes during differentiation and on mature oligodendrocytes in the central nervous system. O4 is formed during postnatal development and is a marker for cell bodies and processes of oligodendrocytes types I and II. O4 is expressed in pro-oligodendrocytes, however, it is not found on O-2A-progenitor cells.

Target Antigen Name: Oligodendrocyte Marker O4
Alternative Names: CLDN11, Claudin-11, Oligodendrocyte transmembrane protein
Gene ID: 5010
Species Reactivity: Human, Mouse, Rat, Chicken, Cow, Pig
Host Species: Mouse
Clonality: Monoclonal
Clone: 81
Isotype: IgM
Immunogen: White matter homogenate obtained from the corpus callosum of cow brain
Conjugate: Unconjugated

Applications
Verified: ICC
Reported: FACS, FC, ICC, IF, IHC

Properties
Formulation: Buffer containing phosphate, sodium chloride, and 0.05% sodium azide.
Purification: The antibody was purified by ion-exchange chromatography.
Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use: The suggested use of this antibody is: ICC, 10 - 20 µg/mL; IHC, 10 - 20 µg/mL. It is recommended that the antibody be titrated for optimal performance for each application. For further instructions on how to use this antibody, refer to the Technical Manual: In Vitro Proliferation and Differentiation of Human Neural Stem and Progenitor Cells Using NeuroCult™ or NeuroCult™-XF (Document #28724) available on our website at www.stemcell.com.

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting
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Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References


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