

Antibodies

Anti-Oligodendrocyte Marker O4 Antibody, Clone 81



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Catalog #60053

50 µg 0.5 mg/mL

Product Description

The 81 antibody clone reacts with the O4 antigen, a sulfated galactocerebroside (sulfatide). O-Antigens are primarily expressed on the extracellular leaflet of the myelin plasma membrane of differentiating and mature oligodendrocytes in the central nervous system, as well as on Schwann cells in the peripheral 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. Abnormal expression of O4 has been associated with various disorders, including neurofibromatosis and schizophrenia.

Target Antigen Name:	Oligodendrocyte Marker O4
Alternative Names:	3-O-sulfogalactosylceramide, SM4, Sulfatide
Species Reactivity:	Human, Mouse, Rat, Chicken
Host Species:	Mouse (BALB/c)
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

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

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, 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 #10000005586), available at www.stemcell.com .

Related Products

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

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