

# Demyelination & Oligodendrocytes

Myelination is the formation of a myelin sheath around a nerve. It's a process accomplished by oligodendrocytes in the central nervous system (CNS) and Schwann cells in the peripheral nervous system. Both are glial cells that encompass the axon. The myelin sheath is necessary for fast signal propagation down a nerve, and also prevents the electrical current leaving the axon by acting as an insulator.

Demyelination is where the myelin coat becomes removed leading to ineffective conduction of signals in affected nerves. This causes a variety of symptoms including loss of movement, cognition or other functions. There are numerous disorders which can cause damage to the myelin sheath. One of the best characterized demyelination diseases is Multiple Sclerosis (MS). MS is an autoimmune disorder in which the immune system attacks oligodendrocytes in the CNS.

Specificity	Human Antibodies	Rat Antibodies	Mouse Antibodies
<b>Oligodendrocyte and Multiple Sclerosis markers</b>			
14-3-3 (pSer58)	AHP976	AHP976	AHP976
14-3-3 (pSer185)	AHP1049	AHP1049	AHP1049
14-3-3 BETA	AHP1044	AHP1044	AHP1044
14-3-3 EPSILON	AHP1045, AHP1048	AHP1045, AHP1048	AHP1045, AHP1048
AMPHOTERIN	0200-0070, MCA4045Z	0200-0070	0200-0070
CARBONIC ANHYDRASE II	AHP206		
CD104*	MCA1456		MCA2369
GALACTOCEREBROSIDE	4600-0004	4600-0004	4600-0004
LAMININ	5620-0404, MCA3231Z, AHP420, 5620-0436, MCA3230Z	5620-0404	
MBP	0300-0082, MCA409S, 6420-2704, MCA184S, MCA70, MCA408S, MCA685S	0300-0082, MCA70, MCA409S, MCA184S	MCA408S, MCA409S
MBP (pThr98)	MCA1577		
MYELIN (OLIGODENDROCYTES & CNS)	6418-0606	6418-0606	6418-0606
NESTIN	OBT1611, OBT1610	6625-1010	6625-1010
OLIGODENDROCYTE MYELIN GLYCOPROTEIN	MCA1945	MCA1945	MCA1945
S100	AHP385, MCA2769, MCA2772	AHP385	AHP385
TRANSFERRIN	9100-0004, AHP858, AHP081, 9100-1057, 9100-1055	AHP081	AHP081

\* Multiple formats available

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