

## Product datasheet for **BM622**

### Myelin (oligodendrocytes + CNS) Mouse Monoclonal Antibody [Clone ID: 4A9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	4A9
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on frozen sections: Use 4% paraformaldehyde fixed tissues.
Reactivity:	Chicken, Feline, Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Rat glial membranes and whole brain white matter.
Specificity:	In neonatal rat glia this antibody stains oligodendrocytes. In tissue sections this antibody labels CNS myelin and oligodendrocytes, with no labelling of peripheral myelin.
Formulation:	State: Ascites State: Liquid Ascites
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at 2-8°C. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Background:	<p>Myelin is produced by oligodendrocytes in the CNS and Schwann cells in the peripheral nervous system (PNS). Defining the differences between CNS and PNS myelin may provide insights into the process of myelination and the pathogenesis of certain idiopathic diseases involving myelin such as multiple sclerosis, certain leukodystrophies, and other myelinopathies.</p> <p>Myelin is composed of about 80% lipid fat and about 20% protein. Some of the proteins that make up myelin are Myelin basic protein (MBP), Myelin oligodendrocyte glycoprotein (MOG) and Proteolipid protein (PLP). Myelin is made up primarily of a glycolipid called galactocerebroside. The intertwining of the hydrocarbon chains of sphingomyelin serve to strengthen the myelin sheath.</p>



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