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MOG Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18125c

Product Information

Application	WB, E
Primary Accession	Q16653
Other Accession	Q9BGS7, NP_001008229.1
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21215
Calculated MW	28193
Antigen Region	82-109

Additional Information

Gene ID	4340
Other Names	Myelin-oligodendrocyte glycoprotein, MOG
Target/Specificity	This MOG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 82-109 amino acids from the Central region of human MOG.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MOG Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MOG
Function	Mediates homophilic cell-cell adhesion (By similarity). Minor component of the myelin sheath. May be involved in completion and/or maintenance of the myelin sheath and in cell-cell communication.

Cellular Location	[Isoform 1]: Cell membrane; Multi- pass membrane protein [Isoform 2]: Cell membrane; Single- pass type I membrane protein [Isoform 4]: Cell membrane; Single- pass type I membrane protein [Isoform 7]: Cell membrane; Single- pass type I membrane protein [Isoform 9]: Cell membrane; Single- pass type I membrane protein
Tissue Location	Found exclusively in the CNS, where it is localized on the surface of myelin and oligodendrocyte cytoplasmic membranes

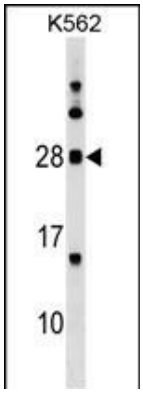
Background

The product of this gene is a membrane protein expressed on the oligodendrocyte cell surface and the outermost surface of myelin sheaths. Due to this localization, it is a primary target antigen involved in immune-mediated demyelination. This protein may be involved in completion and maintenance of the myelin sheath and in cell-cell communication. Alternatively spliced transcript variants encoding different isoforms have been identified.

References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Boyle, L.H., et al. J. Neurochem. 102(6):1853-1862(2007)
Allamargot, C., et al. J. Neurochem. 101(2):298-312(2007)
Delarasse, C., et al. J. Neurochem. 98(6):1707-1717(2006)
Ballenthin, P.A., et al. J. Neurosci. Res. 46(2):271-281(1996)

Images



MOG Antibody (Center) (Cat. #AP18125c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the MOG antibody detected the MOG protein (arrow).