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MOG Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50860

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q16653
Reactivity	Human, Mouse, Rat, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28193
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse MOG
Epitope Specificity	35-55/247
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein (Potential).
SIMILARITY	Belongs to the immunoglobulin superfamily. BTN/MOG family. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
SUBUNIT	Homodimer. May form heterodimers between the different isoforms.
DISEASE	Defects in MOG are the cause of narcolepsy type 7 (NRCLP7) [MIM:614250]. Neurological disabling sleep disorder, characterized by excessive daytime sleepiness, sleep fragmentation, symptoms of abnormal rapid-eye-movement (REM) sleep, cataplexy, hypnagogic hallucinations, and sleep paralysis. Cataplexy is a sudden loss of muscle tone triggered by emotions, which is the most valuable clinical feature used to diagnose narcolepsy. Human narcolepsy is primarily a sporadically occurring disorder but familial clustering has been observed.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	4340
Other Names	Myelin-oligodendrocyte glycoprotein, MOG
Target/Specificity	Found exclusively in the CNS, where it is localized on the surface of myelin

	and oligodendrocyte cytoplasmic membranes.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

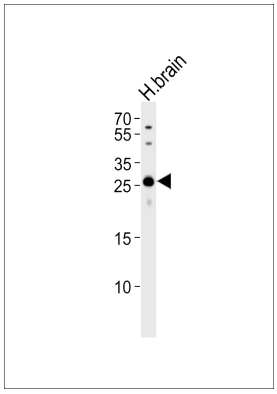
Mediates homophilic cell-cell adhesion (By similarity). Minor component of the myelin sheath. May be involved in completion and/or maintenance of the myelin sheath and in cell- cell communication.

References

Hilton A.A.,et al.J. Neurochem. 65:309-318(1995).
Pham-Dinh D.,et al.J. Neurochem. 63:2353-2356(1994).
Roth M.-P.,et al.Genomics 28:241-250(1995).
Pham-Dinh D.,et al.Genomics 29:345-352(1995).
Ballenthin P.A.,et al.J. Neurosci. Res. 46:271-281(1996).

Images

Western blot analysis of lysate from human brain tissue lysate,using MOG Antibody(AP50860). AP50860 was diluted at 1:500. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.



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