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MOG Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50860

Specification

MOG Antibody - 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	**24 KDa**
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]

Antigen Region **35-55/247**

MOG Antibody - 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<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

MOG Antibody - 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

MOG Antibody - Protocols

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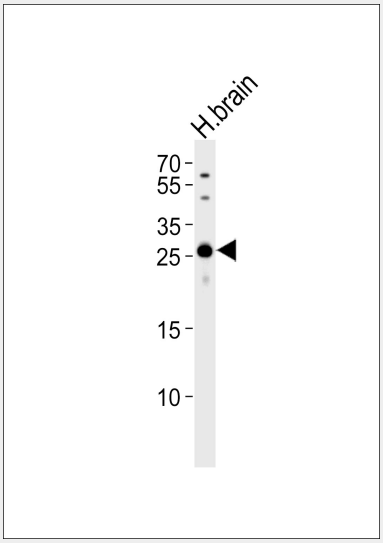
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MOG Antibody - 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.

MOG Antibody - Background

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MOG Antibody - 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).