



Rabbit Anti-Myelin-oligodendrocyte glycoprotein antibody

SL0426R

Product Name:	Myelin-oligodendrocyte glycoprotein
Chinese Name:	髓鞘少树突胶质细胞glycoprotein抗体
Alias:	MOG(35-55); myelin oligo-dendrocyte glycoprotein-MOG; MGC26137; MOG alpha 6; MOG; MOGIG2; Myelin oligodendrocyte glycoprotein; MOG HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	24kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse MOG:35-55/247<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	Myelin oligodendrocyte glycoprotein (MOG) is a key CNS-specific autoantigen for primary demyelination in multiple sclerosis. Although the disease-inducing role of MOG has been established, its precise function in the CNS remains obscure. MOG is a type I integral membrane protein possessing a single extracellular Ig variable domain (Ig-V) (3,

13, 14). The amino acid sequence of MOG is highly conserved among animal species (>90%), indicative of an important biological function. MOG is specifically expressed in the CNS on the outermost lamellae of the myelin sheath as well as the cell body and processes of oligodendrocytes. The developmentally late expression of MOG correlates with the later stages of myelinogenesis, suggesting that MOG has a role in the completion, compaction, and/or maintenance of myelin, further suggesting that MOG has an adhesive function within the CNS. Consistent with MOG's possible adhesive role in the CNS, a homodimeric form of MOG has not only been observed after isolation from the CNS but has additionally been observed in situ.

Function:

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

Subunit:

Homodimer. May form heterodimers between the different isoforms.

Subcellular Location:

Cell membrane; Multi-pass membrane protein (Potential).

Tissue Specificity:

Found exclusively in the CNS, where it is localized on the surface of myelin and oligodendrocyte cytoplasmic membranes.

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.

Similarity:

Belongs to the immunoglobulin superfamily. BTN/MOG family. Contains 1 Ig-like V-type (immunoglobulin-like) domain.

SWISS:

Q61885

Gene ID:

4340

Database links:

[Entrez Gene: 4340](#)Human

[Entrez Gene: 17441](#)Mouse

[Entrez Gene: 24558](#)Rat

[Omim: 159465](#)Human

[SwissProt: Q16653](#)Human

[SwissProt: Q61885](#)Mouse

[SwissProt: Q63345](#)Rat

[Unigene: 141308](#)Human

[Unigene: 210857](#)Mouse

[Unigene: 9687](#)Rat

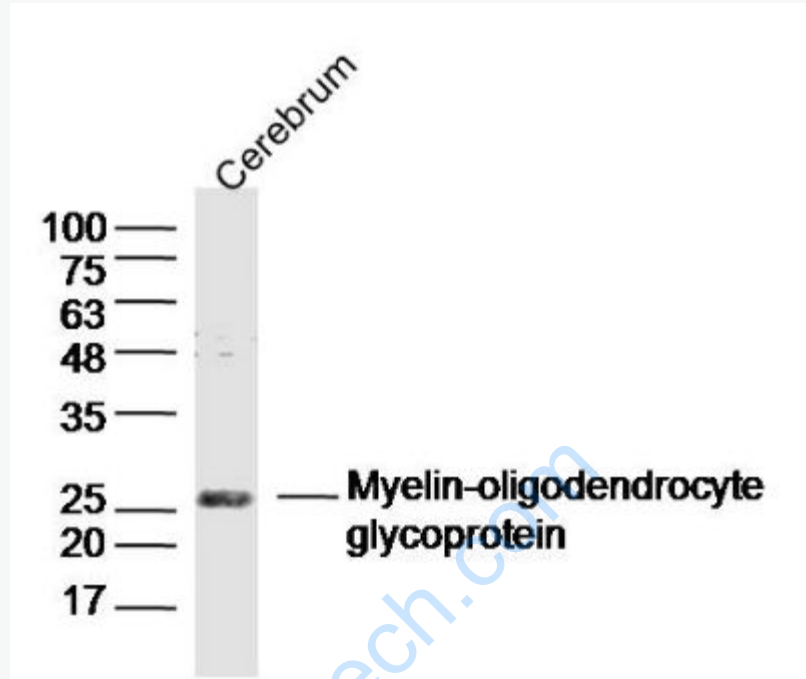
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

该蛋白与脊髓多发性硬化有直接关系。

有学者认为:用免疫组织化学方法所显示轴突周围少树突胶质细胞glycoprotein的异常先于髓鞘破坏。主张病变主要在少树突胶质细胞的超微结构方面,这方面还有待于深入研究。

Picture:



Sample:

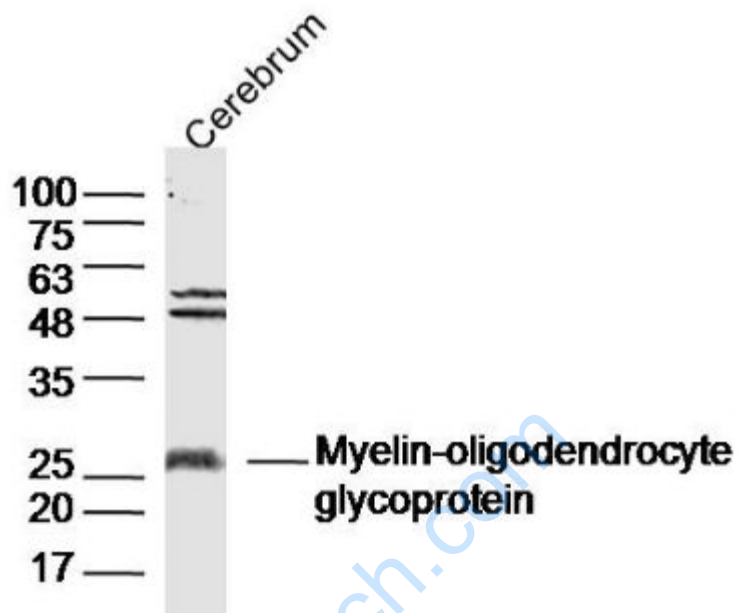
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti- Myelin-oligodendrocyte glycoprotein (SL0426R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

Observed band size: 26 kD



Sample:

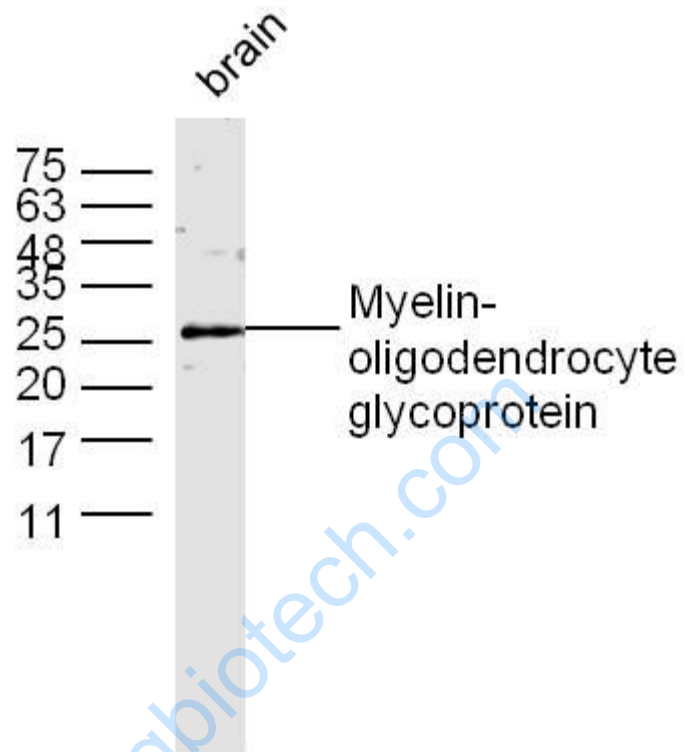
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti- Myelin-oligodendrocyte glycoprotein (SL0426R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

Observed band size: 26 kD



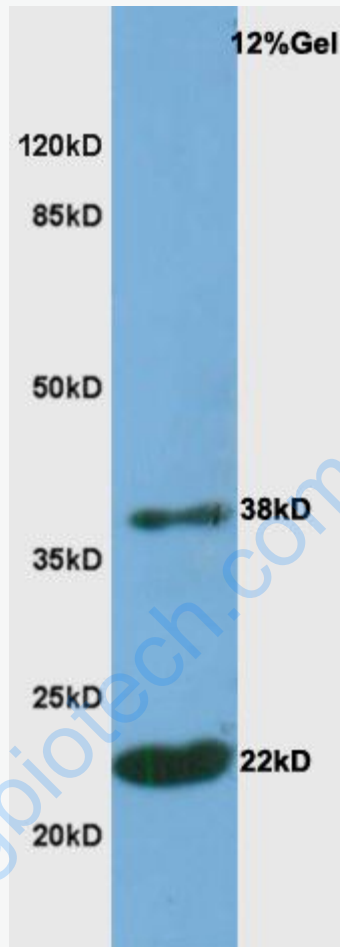
Sample: Brain (Mouse) Lysate at 30 ug

Primary: Anti-Myelin-oligodendrocyte glycoprotein (SL0426R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

Observed band size: 26 kD



Protein: brain(mouse)lysate at 30ug

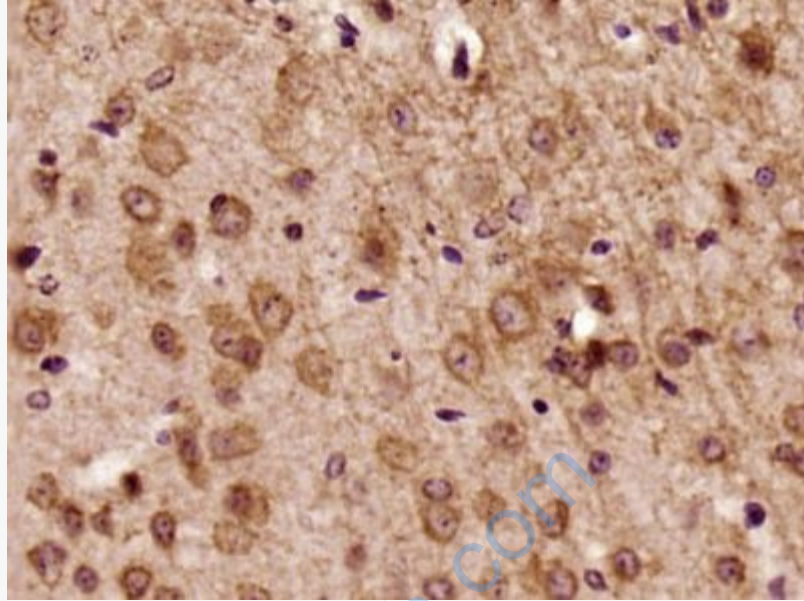
Primary: Anti-alpha-SMA (SL0426R) at 1:300;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000;

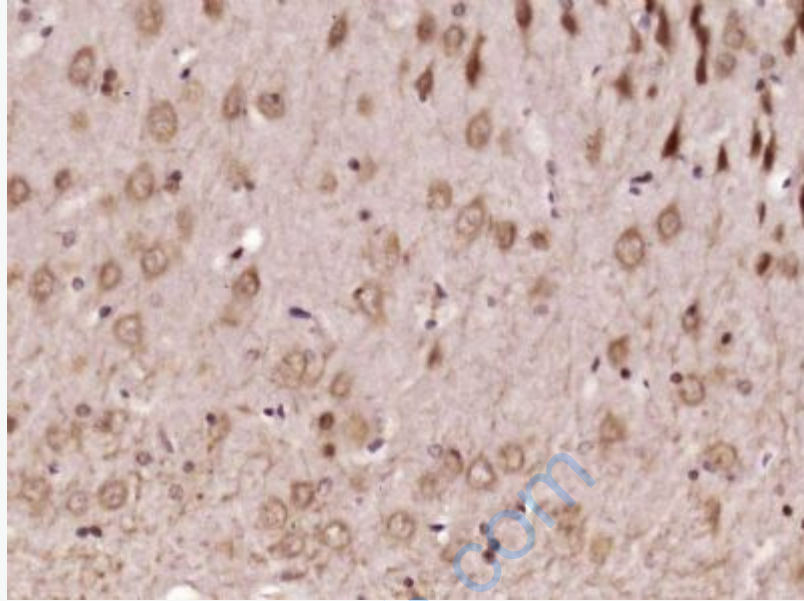
ECL excited the fluorescence;

Predicted band size : 28kD

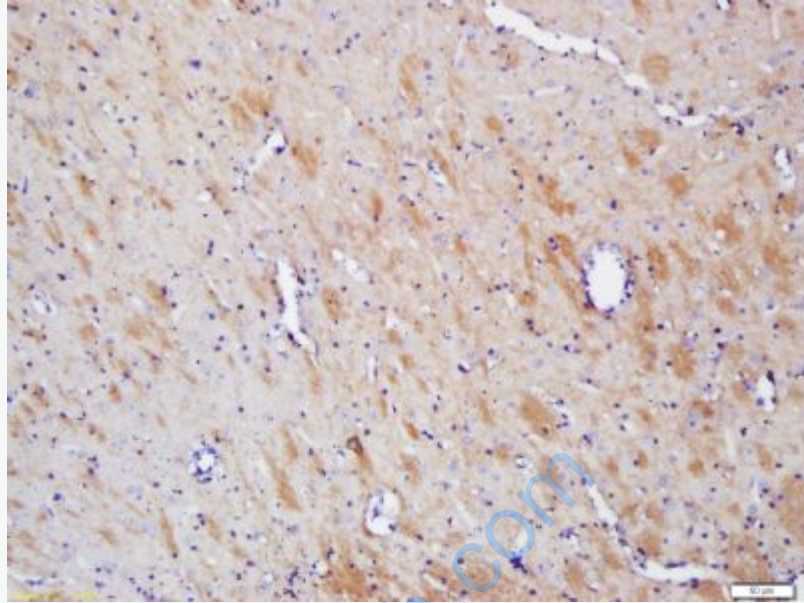
Observed band size : 22kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MOG) Polyclonal Antibody, Unconjugated (SL0426R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MOG) Polyclonal Antibody, Unconjugated (SL0426R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti- MOG Polyclonal Antibody, Unconjugated(SL0426R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining