SunLong Biotech Co.,LTD
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Rabbit Anti-MOG antibody

SL0426R

Product Name	MOG
Chinese Name	髓鞘少树突胶质细胞 glycoprotein 抗体
Alias	MOG_HUMAN; Myelin-oligodendrocyte glycoprotein; Myelin oligodendrocyte glycoprotein; BTN6; BTNL11; MOGIG2; NRCLP7;
Research Area	Cell biology Neurobiology Signal transduction Stem cells Apoptosis Cell adhesion molecule The cell membrane 蛋白
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat (predicted:Human,Pig,GuineaPig)
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	24kDa
Cellular localization	The cell membrane
Form	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
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	The product of this gene is a membrane protein expressed on the oligodendrocyte cell surface

Detail

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]

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

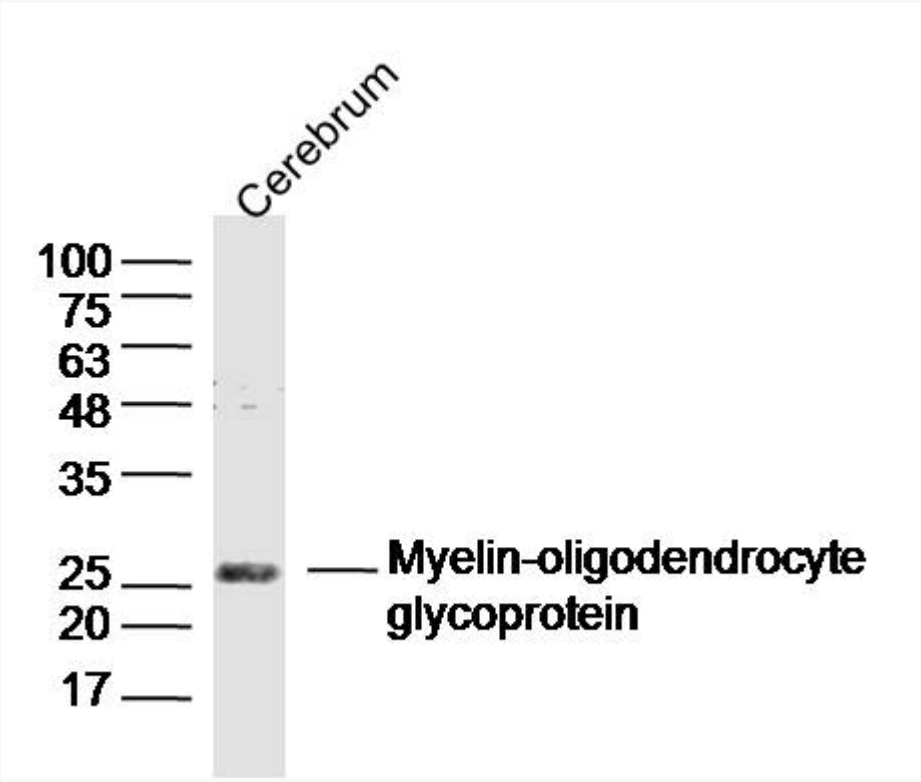
SwissProt: Q63345 Rat

Unigene: 141308 Human

Unigene: 210857 Mouse

Unigene: 9687 Rat

Product Picture



Sample:

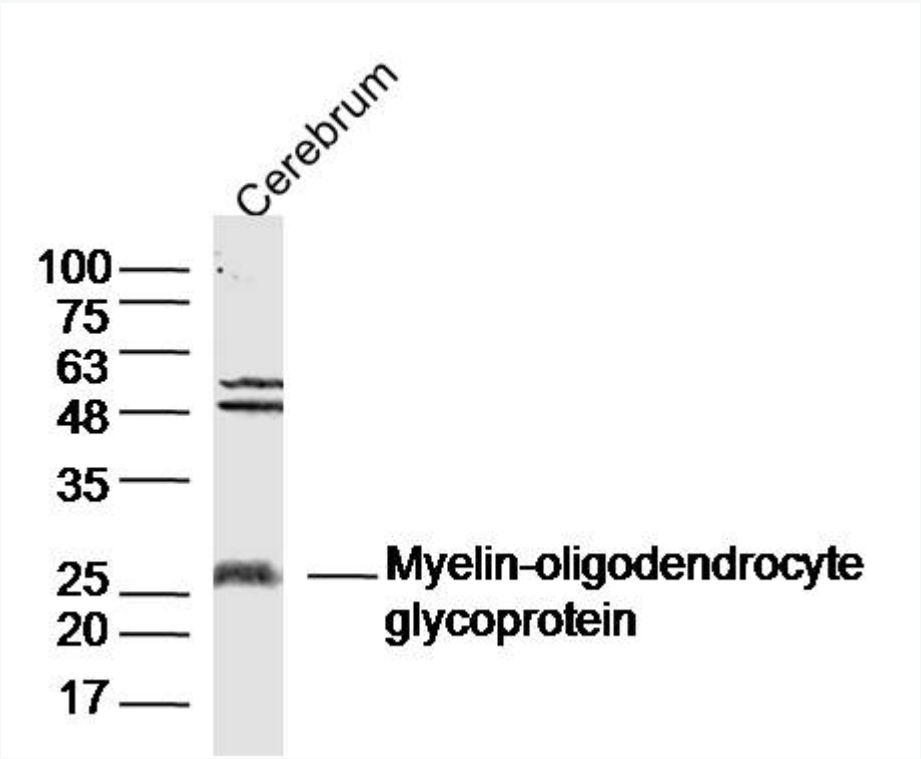
Cerebrum (Mouse) Lysate at 40 ug

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

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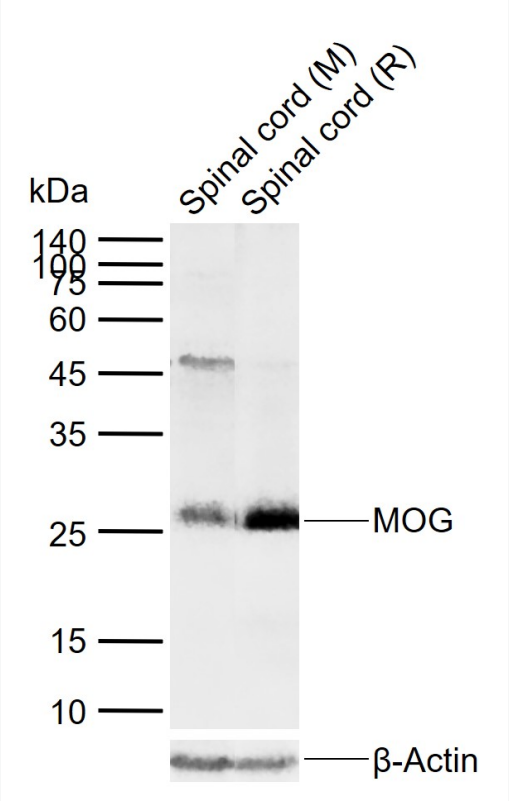

Sample:

Lane 1: Mouse Spinal cord tissue lysates

Lane 2: Rat Spinal cord tissue lysates

Primary: Anti-MOG (SL0426R) at 1/1000 dilution

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

Predicted band size: 24 kDa

Observed band size: 26 kDa

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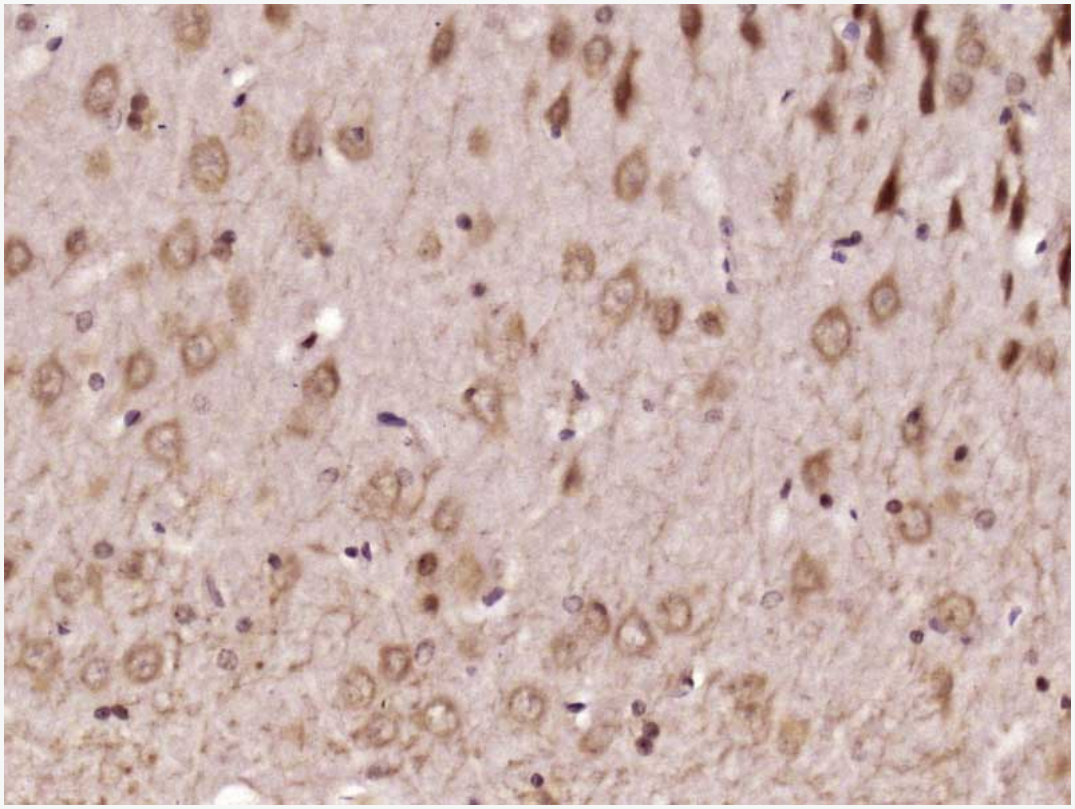

Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MOG) Polyclonal Antibody,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

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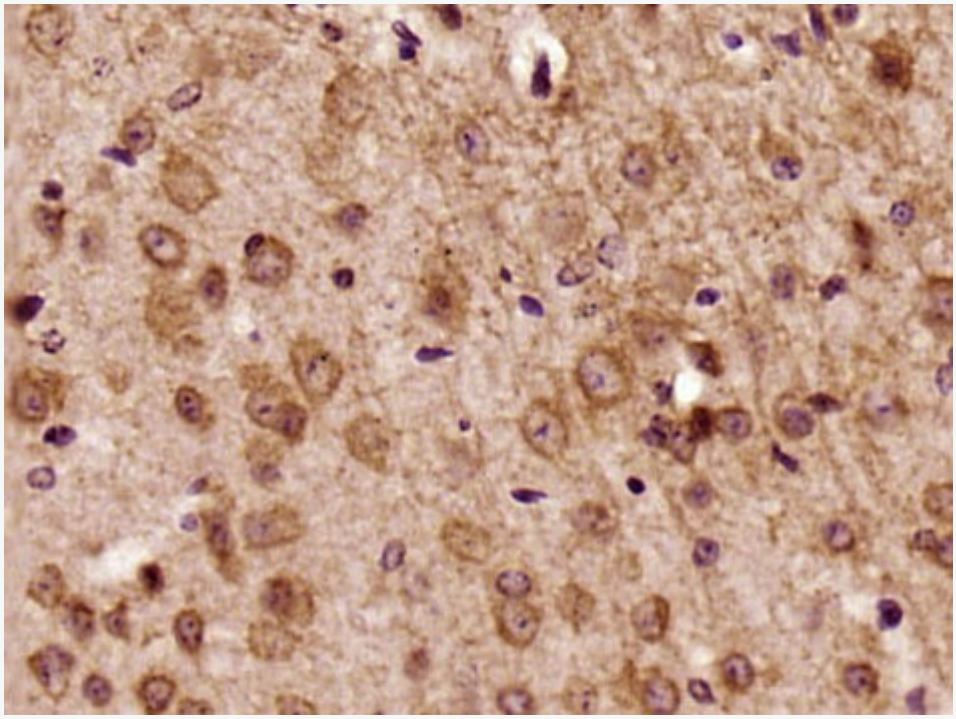

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MOG) Polyclonal Antibody,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

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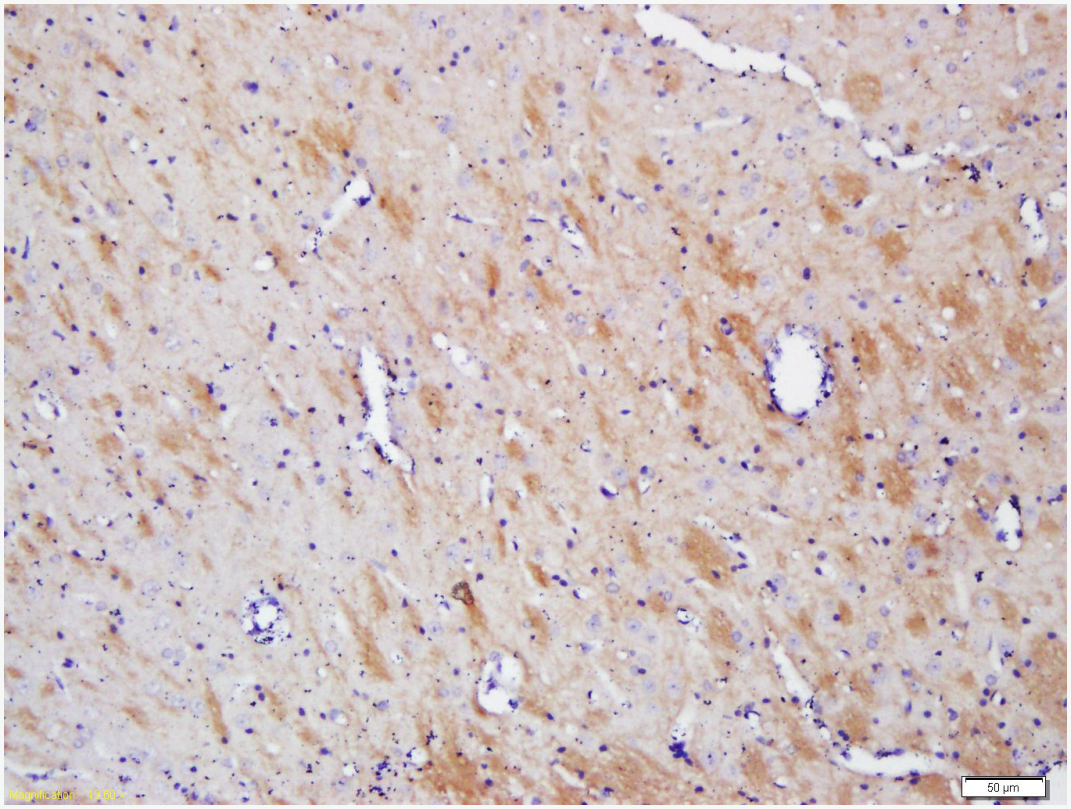

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37← for 20 min;

Incubation: Anti- MOG Polyclonal Antibody, Unconjugated(SL0426R) 1:200, overnight at 4 2.C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining