

For Research Use Only

# OMG Polyclonal antibody

Catalog Number: 12701-1-AP **2 Publications**



## Basic Information

|  |  |  |
|--|--|--|
| <b>Catalog Number:</b><br>12701-1-AP   | <b>GenBank Accession Number:</b><br>BC018050             | <b>Purification Method:</b><br>Antigen affinity purification       |
| <b>Size:</b><br>150ul , Concentration: 400 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>4974                            | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:50-1:500 |
| <b>Source:</b><br>Rabbit   | <b>Full Name:</b><br>oligodendrocyte myelin glycoprotein |  |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>440 aa, 50 kDa                  |  |
| <b>Immunogen Catalog Number:</b><br>AG3210   | <b>Observed MW:</b><br>50 kDa                            |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : mouse spinal cord tissue, mouse brain tissue<br>IHC : human brain tissue, |
| <b>Cited Applications:</b><br>WB   |   |
| <b>Species Specificity:</b><br>human, mouse, rat   |   |
| <b>Cited Species:</b><br>human, rat  |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## Background Information

OMG (oligodendrocyte myelin glycoprotein), also known as OMGP. It is expected to be located in cell membrane, the protein is mainly expressed in the central nervous system in both neurons and oligodendrocytes. The calculated molecular weight of OMG is 50 kDa, and o-glycosylated in its Ser/Thr-rich repeat domain. It is also a cell adhesion molecule contributing to the interactive process required for myelination in the central nervous system. Axonal regeneration in the adult spinal cord is thought to be at least partially blocked after injury by inhibitory myelin components, including Nogo, myelin associated glycoprotein (MAG) and oligodendrocyte-myelin glycoprotein (OMGP).

## Notable Publications

| Author           | Pubmed ID | Journal   | Application |
|------------------|-----------|-----------|-------------|
| Suhui Chen       | 32853644  | Brain Res | WB          |
| Partha K Chandra | 36992502  | Viruses   | WB          |

## Storage

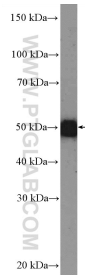
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

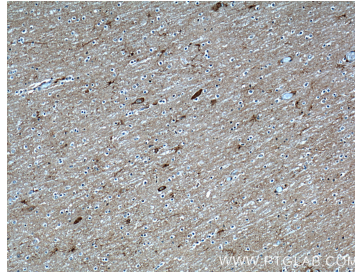
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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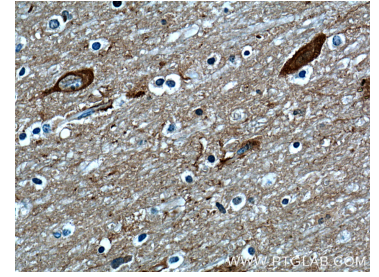
## Selected Validation Data



mouse spinal cord tissue were subjected to SDS PAGE followed by western blot with 12701-1-AP (OMG Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 12701-1-AP (OMG Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 12701-1-AP (OMG Antibody) at dilution of 1:200 (under 40x lens).