

Anti-OMGP Antibody (6D81)

Product Details

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| Ig Type: | Mouse IgG1 |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 6D81 |
| Purification: | Protein A |

Applications

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| Application: | ELISA |
| Recommended | ELISA: 1:1000-1:2000 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | Recombinant Protein: Human OMGP protein (TMPY-02085) |
| Antigen Species: | Human |
| Synonyms: | oligodendrocyte myelin glycoprotein |

Research Background

Oligodendrocyte-myelin glycoprotein, also known as OMG and OMGP, is a cell membrane protein that contains eight LRR (leucine-rich) repeats. OMG / OMGP is a glycosylphosphatidylinositol-anchored protein expressed by neurons and oligodendrocytes in the central nervous system (CNS). OMG / OMGP is a cell adhesion molecule contributing to the interactive process required for myelination in the central nervous system. OMG / OMGP play roles in both the developing and adult central nervous system. OMG / OMGP participates in growth cone collapse and inhibition of neurite outgrowth through its interaction with NgR, the receptor for Nogo. This function requires its leucine-rich repeat domain, a highly conserved region in OMgp during mammal evolution. OMG / OMGP leucine-rich repeat domain is also implicated in the inhibition of cell proliferation. OMG / OMGP may also be involved in the formation and maintenance of myelin sheaths. Cell proliferation, neuronal sprouting, and myelination are crucial processes involved in brain development and regeneration after injury.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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