



Anti-Oligodendrocyte-myelin glycoprotein Antibody

Alternative Names: OMGP, OMG, PMGp, Omgp, Oligodendrocyte myelin glycoprotein

Catalogue Number: AB20-10128-100ug

Size: 100 µg

Background Information

Oligodendrocyte-myelin glycoprotein (OMG) is one of three myelin-associated proteins (along with Nogo-A and MAG) that inhibit neurite outgrowth by binding to the Nogo receptor (NgR1). OMG is expressed by neurons and oligodendrocytes and influences the development of the adult central nervous system. The binding of OMG (along with Nogo-A and MAG) to Nogo Receptor (NgR1) activates a signalling cascade via the Rho family GTPases which leads to growth cone collapse.

NB: Do not confuse oligodendrocyte-myelin glycoprotein (OMG) with myelin-oligodendrocyte glycoprotein (MOG) which is a myelin glycoprotein expressed only at the outermost surface of myelin sheaths and oligodendrocyte membranes and is believed to act as a cell adhesion molecule, a regulator of microtubule stability, and a mediator of myelin and immune interactions.

Product Information

Antibody Type:	Polyclonal Antibody	Host:	Rabbit
Isotype:	IgG	Species Reactivity:	Human, Mouse
Immunogen:	A synthetic peptide from human OMG		
Format:	100 µg in 100 µl PBS with 0.03% Proclin300, 50% glycerol, pH7.3.		
Storage Conditions:	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
Applications:	WB IHC WB 1:200-1000. IHC 1:50-200.		

Additional Information

Subcellular location:	Plasma Membrane	MW:	50kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	4974	Uniprot ID:	P23515