

RP01361

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Recombinant Human Myelin oligodendrocyte glycoprotein/MOFG Protein

Catalog No.: RP01361 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	4340	Q16653

Tags

C-His

Synonyms

BTN6; BTNL11; MOGIG2;
NRCLP7;MOG;BTNL11;MOGIG2;NRCLP
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Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact



www.abclonal.com

Background

Myelin oligodendrocyte glycoprotein (MOG) is a transmembrane protein belonging to the immunoglobulin superfamily and contains an Ig-like domain followed by two potential membrane-spanning regions. MOG is expressed only in the CNS with very low content (approximately 0.1% total proteins) in the oligodendroglial membrane. Three possible functions for MOG were suggested: (a) a cellular adhesive molecule, (b) a regulator of oligodendrocyte microtubule stability, and (c) a mediator of interactions between myelin and the immune system, in particular, the complement cascade. A direct interaction might exist between the membrane-associated regions of MOG and the myelin-specific glycolipid galactocerebroside (Gal-C), and such an interaction may have important consequences regarding the membrane topology and function of both molecules. It is considered that MOG is an autoantigen capable to produce demyelinating multiple sclerosis-like diseases in experimental animals.

Basic Information

Description

Recombinant Human Myelin oligodendrocyte glycoprotein/MOFG Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly30-Gly154) of human MOG (Accession #NP_996532.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human MOG at 1 μg/mL (100 μL/well) can bind Myelin oligodendrocyte glycoprotein Rabbit mAb with a linear range of 0.98-2.5 ng/mL

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

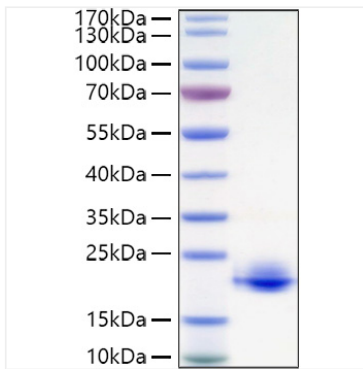
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

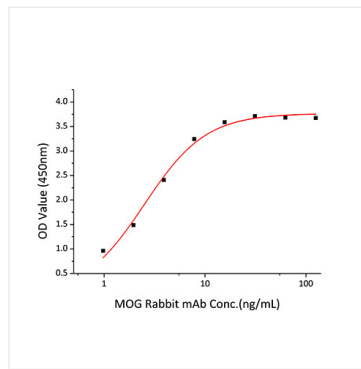
Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Recombinant Human Myelin oligodendrocyte glycoprotein/MOFG Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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