



P90421Mu01
Myelin Oligodendrocyte Glycoprotein (MOG)
Organism: Mus musculus (Mouse)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

3th Edition (Revised in February, 2012)

[DESCRIPTION]

Protein Names: Myelin Oligodendrocyte Glycoprotein

Gene Names: MOG

Size: 100µg

Source: Recombinant

Expression Host: *E. coli*

Function: Minor component of the myelin sheath. May be involved in completion and/or maintenance of the myelin sheath and in cell-cell communication. Mediates homophilic cell-cell adhesion.

Subcellular Location: Membrane; Multi-pass membrane protein.

Tissue Specificity: Found exclusively in the CNS, where it is localized on the surface of myelin and oligodendrocyte cytoplasmic membranes.

[PROPERTIES]

Residues: Gly29~Gly153 (Accession # Q61885), with a N-terminal His-tag.

Grade & Purity: >97%, 15.8 kDa as determined by SDS-PAGE reducing conditions.

Form & Buffer: Supplied as lyophilized form in PBS, pH 7.4.

Endotoxin Level: <1.0 EU per 1µg (determined by the LAL method).



Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 15.8 kDa

[PREPARATION]

Reconstitute in PBS.

[STORAGE AND STABILITY]

Storage: Store at 4°C for short time storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage.
Avoid repeated freeze/thaw cycles.

Valid period: 12 months stored at -80°C.

[BACKGROUND]

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHSGSEF-GQ FRVIGPGYPI RALVGDEAEL PCRISPGKNA TGMEVGWYRS PFSRVVHLYR
NGKDQDAEQA PEYRGRTTELL KETISEGKVT LRIQNVRFSD EGGYTCFFRD HSYQEEAAME LKVEDPFYWV
NPG

