YB90421Mu01

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 $4^{\circ}$C for short time storage (1-2 weeks). Aliquot and store at $-20^{\circ}$C or $-80^{\circ}$C for long term storage. Avoid repeated freeze/thaw cycles.

**Valid period:** 12 months stored at $-80^{\circ}$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.

MGHHHHHHSGSEF-GQ          FRVIGPGYPI     RALVGDEAEL     PCRISPGKNA     TGMEVGWYRS     PFSRVVHLYR
NGKDQDAEQA PEYRGRTELL KETISEGKVT LRIQNVRFSD EGGYTCFFRD HSYQEEAAME LKVEDPFYWV
NPG