EPA539Hu61 50µg

Eukaryotic Myelin Basic Protein (MBP)

Organism Species: *Homo sapiens (Human)*

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

[PROPERTIES]

Source: Eukaryotic expression

Host: 293F Cell

Residues: Met1~Arg304

Tags: N-terminal His Tag

Tissue Specificity: Spleen

Subcellular Location: Membrane, Nucleus

Purity: > 95%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 0.01% SKL, 5% Trehalose and Proclin300.

Original Concentration: 200μg/mL

Applications: Positive Control; Immunogen; SDS-PAGE; WB.

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

Predicted isoelectric point: 9.8

Predicted Molecular Mass: 34.7kDa

Accurate Molecular Mass: 46kDa as determined by SDS-PAGE reducing conditions.

Phenomenon explanation:

The possible reasons that the actual band size differs from the predicted are as follows:

1.Splice variants: Alternative splicing may create different sized proteins from the same gene.

2. Relative charge: The composition of amino acids may affects the charge of the protein.

3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.

4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.

5. Polymerization of the target protein: Dimerization, multimerization etc.

[USAGE]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8ºC for one month.

Aliquot and store at -80ºC for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

MGNHAGKREL NAEKASTNSE TNRGESEKKR NLGELSRTTS EDNEVFGEAD
ANQNNGTSSQ DTAVTDSKRT ADPKNAWQDA HPADPGSRPH LIRLFSRDAP
GREDNTFKDR PSESDELQTI QEDSAATSES LDVMASQKRP SQRHGSKYLA
TASTMDHARH GFLPRHRDTG ILDSIGRFFG GDRGAPKRGS GKDSHHPART
AHYGSLPQKS HGRTQDENPV VHFFKNIVTP RTPPPSQGKG RGLSLSRFSW
GAEGQRPGFG YGGRASDYKS AHKGFKGVDA QGTLSKIFKL GGRDSRSGSP
MARR

[IDENTIFICATION]

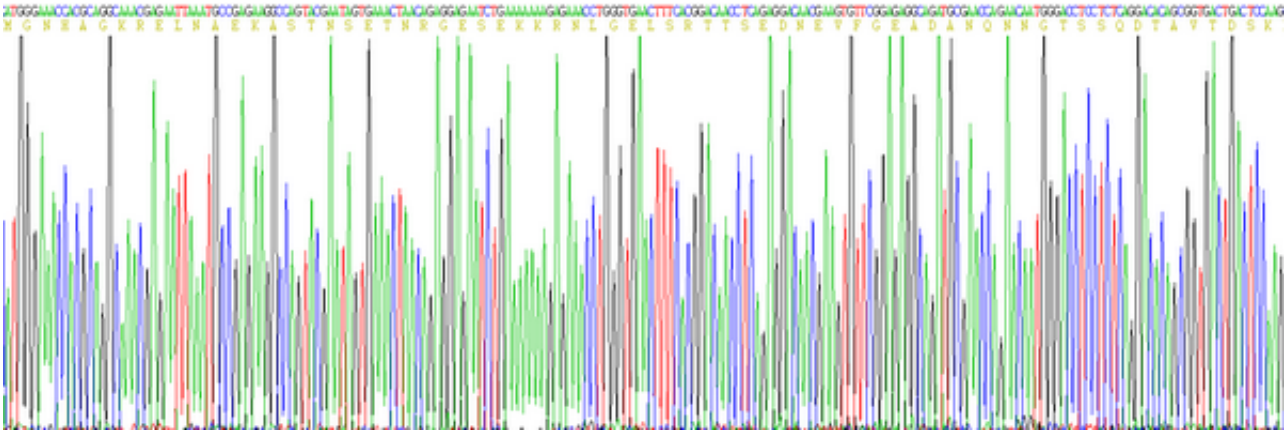

Figure. Gene Sequencing (Extract)

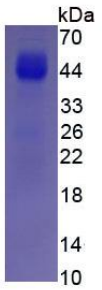

Figure. SDS-PAGE

[IMPORTANT NOTE]

The kit is designed for in vitro and research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.