

RPB972Mu01 10 μ g
Recombinant Pigment Epithelium Derived Factor (PEDF)
Organism Species: *Mus musculus* (Mouse)
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: Prokaryotic expression.

Host: *E. coli*

Residues: Ser19~Thr417

Tags: N-terminal His-Tag

Tissue Specificity: Liver, Kidney, Brain, Heart.

Purity: >98%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl 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: 6.4

Predicted Molecular Mass: 51.1kDa

Accurate Molecular Mass: 58kDa 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 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 2-8°C for one month.

Aliquot and store at -80°C 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]

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SQ NVPSSSEGSP VPDSTGEPVE EEDPFFKVPV
NKLAAAVSNF GYDLYRLRSS ASPTGNVLLS PLSVATALSA LSLGAEHRTE
SVIHRALYVD LITNPDIHST YKELLASVTA PEKNLKSASR IVFERKLRVK
SSFVAPLEKS YGTRPRILTG NPRVDLQEIN NWWQAQMKGK IARSTREMP
ALSILLGVA YFKGQWVTKF DSRKTTLQDF HLDEDRTVRV PMMSDPKAIL
RYGLSDSLNC KIAQLPLTGS MSIIFFLPLT VTQNLTMIEE SLTSEFIHDI
DRELKTIQAV LTVPKLKLSF EGELTKSLQD MKLQSLFESP DFSKITGKPV
KLTQVEHRAA FEWNEEGAGS SPSPGLQPVR LTFPLDYHLN QPFLFVLRDT
DTGALLFIGR ILDPSSST
    
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[IDENTIFICATION]

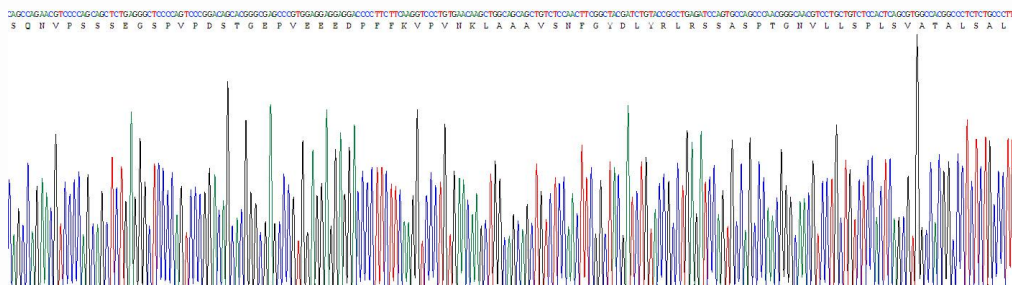


Figure 1. Gene Sequencing (Extract)

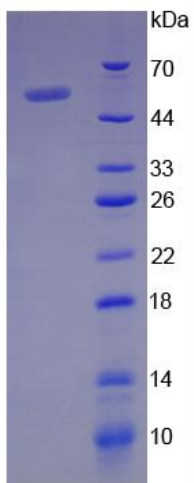


Figure 2. SDS-PAGE