

RPC110Ra01 10 μ g
Recombinant Growth Differentiation Factor 5 (GDF5)
Organism Species: *Rattus norvegicus* (Rat)
Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

[PROPERTIES]

Source: Prokaryotic expression

Host: *E.coli*

Residues: Gln358~Arg495

Tags: N-terminal His Tag

Subcellular Location: Membrane, Secreted

Purity: > 95%

Traits: Freeze-dried powder

Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.

Original Concentration: 100µg/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: 8.1

Predicted Molecular Mass: 22.7kDa

Accurate Molecular Mass: 26kDa 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 affect 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 ddH₂O 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]

QDD KTVYEYLFSSQ RRRRRAPLAN RQGKRPSKNL KARCSRKALH
 VNFKDMGWDD WIIAPLEYEA FHCEGLCEFP LRSHPLEPTNH AVIQTLNMSM
 DPESTPPTCC VPTRLSPISI LFIDSANNVV YKQYEDMVVE SCGCR

[IDENTIFICATION]

CGATTCCAGATGAGAGCTGTGTATGATTTTCTCAGCGCGCGAGCCCGGCGGATTCGTCATTCGCGCCAGCCGCTCCAGAGCCCTCAGGCTCTGAGTCGAGCCCTCAGTGCACCTCAGGCACTGCGCATGCGCTCGGAGCTGGATCATCCACCCTTGATGATGAGCCCTCCACTCCGAGGACTGTGTGTGCTTCCGCTCCGCTTGGAGCCGCT

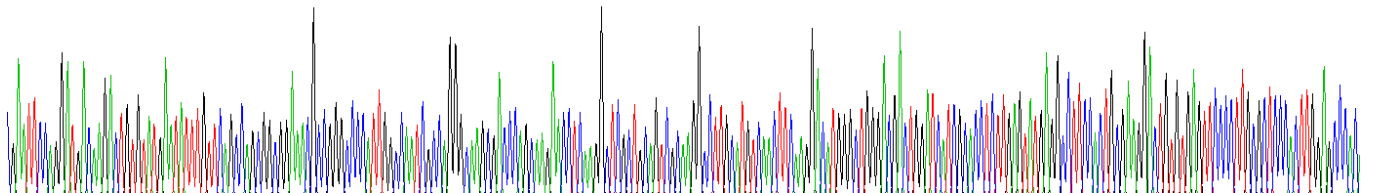


Figure . Gene Sequencing (extract)

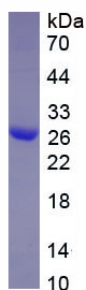


Figure. SDS-PAGE

[IMPORTANT NOTE]

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