

RPB039Hu01 50µg

Recombinant Surfactant Associated Protein D (SPD)

Organism Species: *Homo sapiens (Human)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Prokaryotic expression

Host: *E.coli*

Residues: Ala21~Phe375

Tags: N-terminal His Tag

Subcellular Location: Secreted, Extracellular matrix

Purity: > 80%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.

Original Concentration: 120µg/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: 6.3

Predicted Molecular Mass: 36.8kDa

Accurate Molecular Mass: 43kDa 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 2-8°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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                                AEMKTYSHRT MPSACTLVMC SSVESGLPGR
DGRDREGPR GEKDPGLPG AAGQAGMPGQ AGPVGPKGDN GSVGEPGPKG
DTGPGSGPPG PGVPGPAGRE GPLGKQGNIG PQGKPGPKGE AGPKGEVGAP
GMQGSAGARG LAGPKGERGV PGERGVPGNT GAAGSAGAMG PQGSPGARGP
PGLKGDKGIP GDKGAKGESG LPDVASLRQQ VEALQGQVQH LQAAFSQYKK
VELFPNGQSV GEKIFKTAGF VKPFTEAQLL CTQAGGQLAS PRSAAENAAL
QQLVVAKNEA AFLSMTDSKT EGKFTYPTGE SLVYSNWAPG EPNDDGGSSED
CVEIFTNGKW NDRACGEKRL VVCEF

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[IDENTIFICATION]

AEMKTYSHRTMPSACTLVMCSSVESGLPGRDGRDGREGPRGEKDPGLPGAAGQAGMPGQAGPVGPKGDNGSVGEPGPKGAGPKGEVGAPLQAAFSQYKKLQAGGQLASPRSAAENAALEPNDDGGSEDCVEIFTNGKWNDRACGEKRLVVCEF

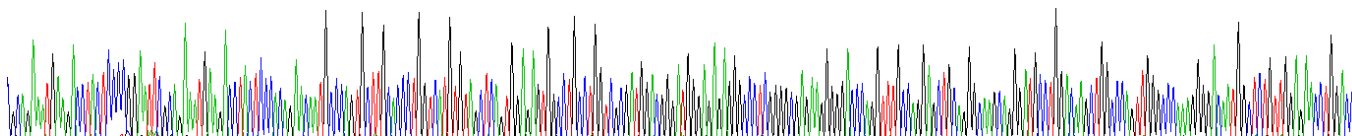


Figure. Gene Sequencing (Extract)

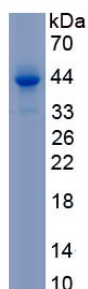


Figure. SDS-PAGE

[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.