

RPB039Mu01 10µg

Recombinant Surfactant Associated Protein D (SPD)

Organism Species: Mus musculus (Mouse)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

[**PROPERTIES**]

Residues: Gly45~Pro221 (Accession # P50404),
with N-terminal His-Tag.

Host: *E. coli*

Subcellular Location: Secreted, extracellular
space, extracellular matrix. surface film.

Purity: >95%

Endotoxin Level: <1.0EU per 1µg
(determined by the LAL method).

Formulation: Supplied as lyophilized form in PBS,
pH7.4, containing 5% sucrose, 5% sarcosyl.

Predicted isoelectric point: 9.7

Predicted Molecular Mass: 17.8kDa

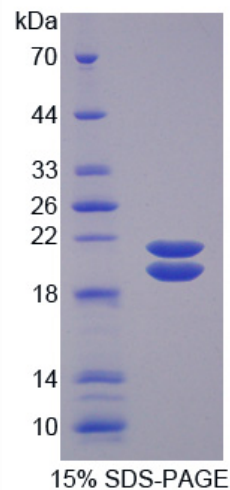
Accurate Molecular Mass: 20&21kDa as determined by SDS-PAGE reducing
conditions.

Applications: SDS-PAGE; WB; ELISA; IP.

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

Note: 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 sterile ddH₂O.

[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 of the target protein. 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. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The target protein is fused with N-terminal His-Tag, its sequence is listed below.
MGHHHHHSGSEF-GLPGRD GRDGREGPRG EKGDPLPMP MGLSGLQGPT
GPVGPKEG SAGEPGPKGE RGLSGPPGLP GIPGPAGKEG PSGKQGNIGP
QGKPGPKGEA GPKGEVGAPG MQGSTGAKGS TGPKGERGAP GVQGAPGNAG
AAGPAGPAGP QGAPGSRGPP GLKGDRGVPG DRGIKGESGL P

[REFERENCES]

1. Geunes-Boyer S., *et al.* (2012) *Infect. Immun.* 80:2444-2453.
2. Stidsen J.V., *et al.* (2012) *PLoS ONE* 7:e35066-e35066.
3. Takimoto T., *et al.* (2012) *Biochem. Biophys. Res. Commun.* 420:84-90.
4. Pei L., *et al.* (2011) *Nat. Med.* 17:1466-1472.