

RPA705Ra02 100µg

Recombinant Mucin 2 (MUC2)

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: Val33~Ala601

Tags: Two N-terminal Tags, His-tag and SUMO-tag

Subcellular Location: Secreted

Purity: > 80%

Traits: Freeze-dried powder

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

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: 4.9

Predicted Molecular Mass: 76.7kDa

Accurate Molecular Mass: 80kDa 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]

| | | | VCSTWGDF | HYKTFDGDVF |
|-------------------|-------------------|------------|------------|------------|
| RFPGLCDYNF | ASDCRDSYKE | FAVHLKRGLD | KAGGHSSIES | VLITIKDDTI |
| YLTHKLAVVN | GAMVSTPHYS | SGLLIEKNDA | YTKVYSRAGL | SLMWNREDAL |
| MVELDGRFQN | HTCGLCGDFN | GMQANNEFLS | DGIRFSAIEF | GNMQKINKPE |
| VVCEDPEEVQ | EPESCSEHRA | ECERLLTSTA | FEDCQARVPV | ELYVLACMHD |
| RCQCPQGGAC | ECSTLAEFSR | QCSHAGGRPE | NWRTASLCPK | KCPGNMVYLE |
| SGSPWLDTCS | HLEVSSLCEE | HYMDGCFCPE | GTVYDDITGS | GCIPVSQCHC |
| KLHGHLYMPG | QEITNDCEQC | VCNAGRWMCK | DLPCPETCAL | EGGSHITTFD |
| GKKFTFHGDC | YYVLTKTKYN | DSYALLGELA | SCGSTDKQTC | LKTVVLLTDN |
| KKNVVAFKSG | GSVLLNEMEV | SLPHVAASFS | IFKPSSYHIV | VNTMFGLRLQ |
| IQLVPVMQLF | VTLDQSAQGQ | VQGLCGNFNG | LESDDFMTSG | GMVEATGAGE |
| ANTWKAQSSC | HDKLDWLDDP | CPLNIESANY | AEHWCSLLKR | SETPFARCHL |
| Α | | | | |

[IDENTIFICATION]

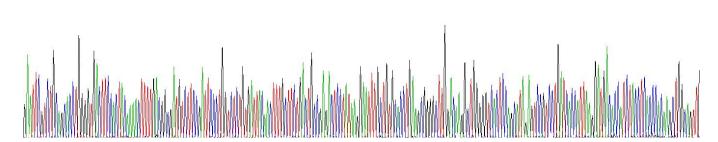


Figure . Gene Sequencing (extract)



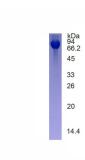


Figure. SDS-PAGE

[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.