



## Human Exosome Component 9 (PmScl-75)

|                     |                                  |                  |        |
|---------------------|----------------------------------|------------------|--------|
| <b>Origin:</b>      | Recombinant                      | <b>Cat. No.:</b> | 41650  |
| <b>Tag:</b>         | N-terminal 6xHis                 | <b>Size:</b>     | 0.1 mg |
| <b>Source:</b>      | <i>Spodoptera frugiperda</i> Sf9 | <b>Purity:</b>   | >90%   |
| <b>Other Names:</b> | EXOSC9                           | <b>Species:</b>  | Human  |

### Description

Expressed in insect Sf9 cells with total 480 AA. Mw: 53.8 KDa (calculated).  
N-terminal 6xHis-tag and TEV cleavage site, 25 extra AA (highlighted).

**Recombinant antigen for research use or manufacturing only.**

### Introduction to the Molecule

Exosome component 9 (EXOSC9 or PmScl-75) is the non-catalytic component of RNA exosome complex, which is involved in the processing and degradation of RNAs. PmScl-75 is essential in the binding and presentation of RNA for ribonucleolysis, and acts as a scaffold for the accessory proteins or complexes, associates with the catalytic subunits and facilitates their activities.

### Immunological Function

As an autoantigen, PmScl-75 binds with IgG-type human auto-antibodies.

### Amino Acid Sequence

**MSYYHHHHHDYDIPPTTENLYFQGA**KETPLSNCEERRFLLRAIEEKKRLDGRQTYDYRNIRISFGT  
DYGCCIVELGKTRVLGQVSCSELVSPKLNRRATEGILFFNLELSQMAAPAFEPGRQSDLLVKLNRLM  
ERCLRNKCIDTESLCVVAGEKVVQIRVDLHLLNHDGNIIDAASIAAIVALCHFRRPDVSVQGDE  
VTLYTPEERDPVPLSIHHMPICVSFAFFQQGTYLLVDPNEREERVMDGLLVIAMNKHREICTIQS  
SGGIMLLKDQVLRCSKIAGVKVAEITELILKALENDQKVRKEGGKFGFAESIANQRITAFKMEKA  
PIDTSDVEEKAEEIIAAEAPPSEVVSTPVLWTPGTAQIGEGVENSWGDLEDSEKEDDEGGGDQAI  
ILDGIKMDTGVEVSDIGSQELGFHHVGGTGLEFLTSDAPIILSDSEEEEMIILEPDKNPCKIRTQ  
TTSKQEKAPSKKPKVRRKKRAAN

### Applications

Standard ELISA test, line/dot assay and microarray assay with positive/negative sera panels.

### Formulation

Lyophilized at 1 mg/mL in storage buffer (20mM Tris, 300-500mM NaCl, 10% Glycerol, PH8.0).

### Reconstitution

Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.





## Storage

Store lyophilized protein at  $-20^{\circ}\text{C}$ . Aliquot reconstituted protein and store at  $-80^{\circ}\text{C}$ . Avoid repeated freezing /thawing cycles.

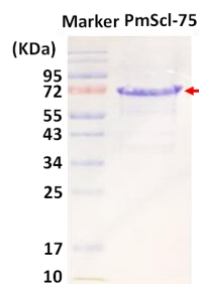
## Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

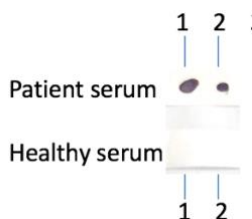
Immunodot analysis to determine functionality of protein.

## SDS-PAGE Gel



## Dot blot assay

### Dot blot analysis of PmScl-75



Analysis of serum from healthy subjects and patients. Recombinant autoantigens were utilized in this dot-blot assay for validation

## Contact Us

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