Human Signal Recognition Particle 54 (SRP54)

Origin:	Recombinant	**Cat. No.:**	41A242
Tag:	N-terminal 6xHis	**Size:**	0.1 mg
Source:	*Spodoptera frugiperda* Sf9	**Purity:**	>90%
Other Names:	SRP54	**Species:**	Human

Description

Expressed in insect Sf9 cells with total 528 AA. Mw: 58.7 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

The signal recognition particle (SRP) recruits secretory and transmembrane proteins to the endoplasmic reticulum (ER) where co-translational translocation across the ER membrane occurs. Anti-signal recognition particle (SRP) antibody, detected in 5-8% of patients with clinical diagnosis of myositis, had been associated with severe and refractory myositis.

Immunological Function

As an autoantigen, SRP54 binds with IgG-type human auto-antibodies.

Amino Acid Sequence

MSYYHHHHHHDYDIPTTENLYFQGAVLADLGRKITSALRSLSNATIINEEVLNAMLKEVCTA
LLEADVNIKLVKQLRENVKSAIDLEEMASGLNKRKMIQHAVFKELVKLVDPGVKAWTPTKGKQN
VIMFVGLQGSGKTTTCSKLAYYYQRKGWKTCLICADTFRAGAFDQLKQNATKARIPFYGSYTEM
DPVIIASEGVEKFKNENFEIIIVDTSGRHKQEDSLFEEMLQVANAIQPDNIVYVMDASIGQACEA
QAKAFKDKVDVASVIVTKLDGHAKGGGALSAVAATKSPIIFIGTGEHIDDFEPFKTQPFISKLLG
MGDIEGLIDKVNELKLDDNEALIEKLKHGQFTLRDMYEQFQNIMKMGPFSQILGMIPGFGTDFM
SKGNEQESMARLKKLMTIMDSMNDQELDSTDGAKVFSKQPGRIQRVARGSGVSTRDVQELLT
QYTKFAQMVKKMGGIKGLFKGGDMSKNVSQSQMAKLNQQMAKMMDPRVLHHMGGMAGLQ
SMMRQFQQGAAGNMKGMMGFNNM

Applications

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

Formulation

Liquid in storage buffer (50mM Tris, 300mM NaCl, 10%Glycerol, pH 7.4).

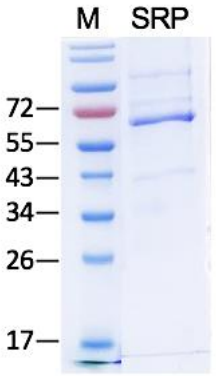
Storage

Store at –20°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



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