

PM/Scl 100

Antigen Specification

Product Number: 16000

Description:

Human PM/Scl 100 protein component of the nuclear exosome or so-called polymyositis/scleroderma antigen protein complex.

Recombinant antigen for in vitro research and manufacturing use only.

Immunological function:

Binds IgG-type human auto-antibodies.

Origin:

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

Expression construct:

Full-length cDNA coding for human PM/Scl 100 fused to a hexa-histidine purification tag. Internal initiation site inactivated by point mutation of a single amino acid residue.

Biochemical tests:

SDS-PAGE (purity > 70%); Western blot with i: anti PM/Scl 100 autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.

Calculated molecular weight:

102 kDa

Calculated isoelectric point:

pH 8.7

Immunological tests/Functionality:

Standard ELISA test (checkerboard analysis of positive/negative samples); immunodot analyses with positive/negative samples.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH; due to purification workup under denaturing conditions presence of up to 0.02% SDS (or similar detergents) may be required for maintaining solubility. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.4-0.8 µg/mL (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

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