

## MDA5

### Antigen Specification

**Product Number: 30000**

**Description:**

Melanoma differentiation-associated protein 5 (MDA5; also known as clinically amyopathic dermatomyositis autoantigen 140 kDa; CADM-140). 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 the human melanoma differentiation-associated protein 5 fused to a deca-histidine purification tag.

**Biochemical tests:**

SDS-PAGE (purity > 80%); Western blot with i: anti-MDA5 autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.

**Calculated molecular weight:**

118 kDa

**Calculated isoelectric point:**

pH 5.60

**Immunological tests/Functionality:**

Immunodot analyses with positive/negative samples.

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: neutral to slightly alkaline pH and 6M urea. Storage conditions: -70°C or below.

Repeated freeze/thaw cycles should be avoided.

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