

SAE1/SAE2

Antigen Specification

Product Number: 31600

Description:

Human SUMO-activating enzyme subunits 1 and 2 (SAE1/SAE2). The subunits associate to form a 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:

cDNAs coding for full-length chains for the SAE1 and SAE2 subunits; enzyme subunit SAE2 fused to a deca-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with i: anti-SAE1/SAE2 autoantibody-positive sample; ii: polyclonal anti-SAE1 and anti-SAE2 antibodies.

Calculated molecular weight:

SAE1 subunit: 39 kDa
SAE2 subunit: 73 kDa

Calculated isoelectric point:

SAE1 subunit: pH 5.2
SAE2 subunit: pH 5.5
SAE1/SAE2 complex: around pH 5.4

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 and 20% glycerol as cryoprotective agent. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.3-0.8 µg/mL (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

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