

Centromere Protein A (CENP-A)

Antigen Specification

Product Number: 16900

Description:

Human centromere protein A (CENP-A). Recombinant antigen for research use or manufacturing 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 centromere protein A fused to a hexahistidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 90%); Western blot with i: anti-CENP-A autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.

Calculated molecular weight:

17 kDa

Calculated isoelectric point:

pH 11.7

Immunological tests/Functionality:

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

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 6 M urea.

Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.15-0.4 µg/mL (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

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