

## Recombinant Human Centromere Protein A (CENP-A)

### Antigen Specification

**Product Number: 16900**

**Description:**

Human centromere protein A (CENP-A). Recombinant antigen for solid (ELISA) and fluid phase diagnostic assays.

**Calculated molecular weight:**

17,015 Dalton

**Calculated isoelectric point:**

pH 11.7

**Immunological function:**

Binds IgG-type human auto-antibodies.

**Immunological tests/Functionality:**

Standard ELISA test (checker-board analysis of positive/negative sera panels); Immuno-Dot test with positive/negative sera panels

**Origin:**

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

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

Recommendations for storage buffer: ion strength ~150 mM, neutral to slightly alkaline pH and 6 M urea. Storage temperature: -70° to -80° C. Repeated freeze/thaw cycles should be avoided.

**Expression construct:**

Full-length cDNA coding for the human centromere protein A fused to a hexahistidine purification tag.

**Coating concentration:**

0.15-0.4 µg/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.

**Biochemical tests:**

SDS-PAGE; Western-Blot with i: Scleroderma patient sera; ii: monoclonal anti-hexa-His-tag antibody.

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