



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Human Centromere Protein-A

Catalog No.
228-10216

Source
Sf9 insect cells.

Synonyms

Histone H3-like centromeric protein A, Centromere protein A, CENP-A, Centromere autoantigen A, CENPA.

Introduction

Centromere proteins are a group of proteins which form and/or mediate the function of centromeres, the central structures of chromosomes to which spindle fibers/microtubuli attach and pull the chromosomes apart in cell division. Currently, 9 centromere proteins are known and designated CENPA to CENP-I. Most of the centromere proteins are targets of autoantibodies, the anti-centromere antibodies. CENPA is another important centromeric autoantigen in addition to CENPB: it has a molecular weight of approx. 20 kDa and is incorporated into centromeric chromatin due to its histone-like properties. CENPA antibodies are an important marker for correct diagnosis of Scleroderma / CREST syndrome in CENPB-autoantibody negative patients.

Description

CENPA Human Recombinant produced in SF9 is a glycosylated, polypeptide chain having a molecular mass of 17,015 Dalton.

CENPA is expressed with a -6x His tag and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered liquid formulation.

Formulation

CENPA is supplied in 20mM HEPES buffer pH-8, 100mM sodium chloride, and 6M Urea.

Immunological functions

1. Binds IgG-type human auto-antibodies.
2. Standard ELISA test (checker-board analysis of positive/negative sera panels including CDC international reference sera).

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Western-Blot with monoclonal anti-hexa-His-tag antibody & Scleroderma patient sera.
0.15-0.4 µg/ml (depending on the type of ELISA plate and coating buffer).
Suitable for biotinylation and iodination.

Storage Conditions

Store at 4°C if entire vial will be used within 2-4 weeks.
Store, frozen at -20°C for longer periods of time.
Avoid multiple freeze-thaw cycles.

Purity

Greater than 90% as determined by SDS-PAGE.

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