



## Product Datasheet

<b>Product Name</b>	Centromere Protein A Human Recombinant
<b>Cata No</b>	CB501010
<b>Source</b>	<i>Sf9 insect cells.</i>
<b>Synonyms</b>	Histone H3-like centromeric protein A, Centromere protein A, CENP-A, Centromere autoantigen A, CENPA.

### Description

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 CENP-A to CENP-I. Most of the centromere proteins are targets of autoantibodies, the anti-centromere antibodies. CENP-A is another important centromeric autoantigen in addition to CENP-B: it has a molecular weight of approx. 20 kDa and is incorporated into centromeric chromatin due to its histone-like properties. CENP-A antibodies are an important marker for correct diagnosis of Scleroderma / CREST syndrome in CENP-B-autoantibody negative patients. CENP-A Human Recombinant produced in SF9 is a

glycosylated, polypeptide chain having a molecular mass of 17,015 Dalton.

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

### Physical Appearance

Sterile Filtered liquid formulation.

### Purity

Greater than 90% as determined by SDS-PAGE

### Formulation

CENP-A is supplied at a concentration of 0.6 mg/ml in 20mM HEPES buffer pH-8, 100mM sodium chloride, and 6M Urea.

### Applications

Western-Blot with monoclonal anti-hexa-His-tag antibody & Scleroderma patient sera.