

Recombinant Human Centromere Protein A, His-tagged

Cat. No. CENPA-617H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CENP-A 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

Species Human

Source Sf9 Cells

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.

Physical Appearance Sterile Filtered liquid formulation.

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.

Immunological Binds IgG-type human auto-antibodies. Standard ELISA test (checker-board analysis)

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Functions	of positive/negative sera panels including CDC international reference sera).
Applications	Western-Blot with monoclonal anti-hexa-His-tag antibody & Scleroderma patient sera.
Purity	Greater than 90% as determined by SDS-PAGE.
Coating Concentration	0.15-0.4 g/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.

GENE INFORMATION

Gene Name	CENPA centromere protein A [Homo sapiens]
Synonyms	centromere protein A; CENP-A; CENPA; centromere protein A, 17kDa; centromere protein A (17kD); OTTHUMP00000122589; Centromere autoantigen A
Gene ID	1058
mRNA Refseq	NM_001042426
Protein Refseq	NP_001035891
MIM	117139
UniProt ID	P49450
Chromosome Location	2p24-p21

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Pathway	Cell Cycle, Mitotic
Function	DNA binding; chromatin binding; protein binding

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