Human Centromere Protein A (CENPA)

Origin:	Recombinant	**Cat. No.:**	41610
Tag:	N-terminal 6xHis	**Size:**	0.1 mg
Source:	*Spodoptera frugiperda* Sf9	**Purity:**	>95%
Other Names:	CENP-A, CENP A	**Species:**	Human

Description

Expressed in insect Sf9 cells with total 164 AA. Mw: 19.0 KDa (calculated).
N-terminal 6xHis-tag and TEV cleavage site, 25 extra AA (highlighted).
Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

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. The centromere protein A (CENPA) is one of them.
CENPA contains a histone H3 related histone fold domain and can be incorporated into centromeric chromatin due to its histone-like properties. Anti-CENPA autoantibodies are an important marker for diagnosis of Scleroderma / CREST syndrome.

Immunological Function

As an autoantigen, CENP-A binds with IgG-type human auto-antibodies.

Amino Acid Sequence

MSYYHHHHHHDYDIPTTENLYFQGAGPRRRSRKPEAPRRRSPSPTPTPGPSRRGPSLGAS
SHQHSRRRQGWLKEIRKLQKSTHLLIRKLPFSRLAREICVKFTRGVDFNWQAQALLALQEAAEA
FLVHLFEDAYLLTLHAGRVTLFPKDVQLARRIRGLEEGLG

Applications

Standard ELISA test, line/dot assay and microarray assay with positive/negative sera panels.

Formulation

Liquid in 8M Urea buffer (pH 8.0) with protease inhibitor.

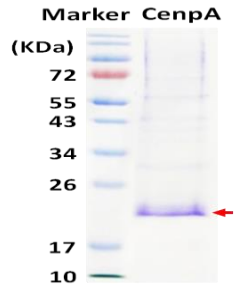
Storage

Store at –80°C. Avoid repeated freezing/thawing cycles.

Quality Control Test

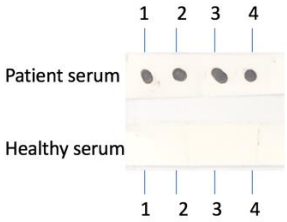
BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
Immunodot analysis to determine functionality of protein.

SDS-PAGE Gel



Dot blot assay

Dot blot analysis of CENPA



Analysis of serum from healthy subjects and patients. Recombinant autoantigens were utilized in this dot-blot assay for validation

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