Human Histones (Native)

Origin:	Native	**Cat. No.:**	41A035
Tag:	No tag	**Size:**	0.1 mg
Source:	HEK293 cells	**Purity:**	>90%
Species:	Human		

Description

Native histones separated from HEK293 cells, including H1, H2A, H2B, H3 and H4.
Antigen for research use or manufacturing only.

Introduction to the Molecule

Histones are proteins that package DNA into nucleosomes and are responsible for maintaining the shape and structure of a nucleosome.
There are five families of histones known to date, H1/H5, H2A, H2B, H3, and H4. H2A, along with H2B, H3 and H4, is considered as a core histone.
Anti-histone autoantibodies are found in 50%-70% of patients with systemic lupus erythematosus (SLE) and in more than 95% of patients with drug-induced lupus erythematosus.

Immunological Function

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

Applications

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

Formulation

Liquid in storage buffer (50mM H_2SO_4, 500mM Tris, Protease inhibitor).

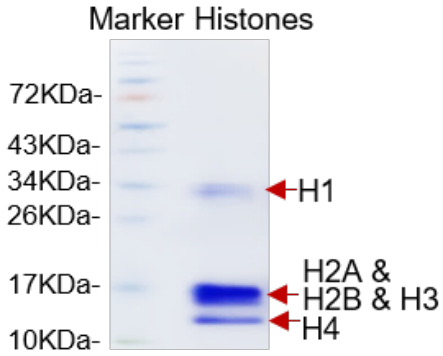
Storage

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

Quality Control Test

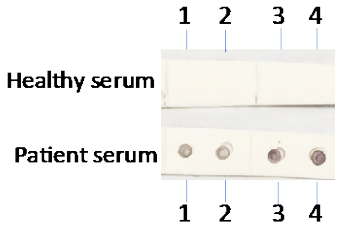
BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.

SDS-PAGE Gel



Dot blot assay

Dot blot analysis of Native Histone



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

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