



Human Histone H2A

Origin:	Recombinant	Cat. No.:	41810
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	<i>E.coli</i>	Purity:	>90%
Other Names:	H2A	Species:	Human

Description

Expressed in *E.coli* cells with total 173 AA. Mw: 19.0 KDa (calculated).
N-terminal 6xHis-tag, Xpress Epitope, EK recognition site and TEV cleavage site,
44 extra AA (highlighted).

Recombinant 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, H2A binds with IgG-type human auto-antibodies.

Amino Acid Sequence

**MRGSHHHHHGMASMTGGQMGRDLYDDDDKDRWGSENL⁴⁴YFQGASGRGKQGGKA
RAKAKSRSSRAGLQFPVGRVHRLLRKGNYSERVGAGAPVYLA⁴⁴AVLEYLTAEILELAGNAARDNK
KTRIIPRHLQLAIRNDEELNKLLGRVTIAQGGVLPNIQAVLLPKKTESHKAKGK**

Applications

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

Formulation

Liquid in storage buffer (50mM Tris, 300-500mM NaCl, 10% Glycerol, Protease inhibitor, PH8.0).





Storage

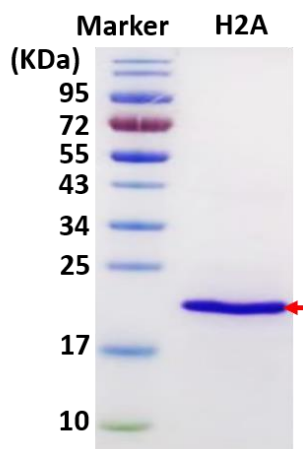
Store at -80°C . Avoid repeated freezing/thawing cycles.

Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

SDS-PAGE Gel



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