

Histone 2A ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified

Catalog no. 700158

(See product label for lot information)



Clone/PAD: 15H4L7
Isotype: IgG
Gene ID: 8331, 8329, 3013,
85235, 3012
Protein Acc. no.: Q99878, P0C0S8,
P20671, Q96KK5, P04908
Qty: 100 µg
Volume: 200 µL
Concentration: 0.5 mg/mL

Formulation

Phosphate buffered saline (PBS) with
0.09% sodium azide.

Application

For use in Western Blotting and ELISA.

Reactivity

This antibody is specific for human
Histone 2A.

Immunogen

Peptide corresponding to amino acids 2-19
of human Histone 2A.

Immunogen sequence

SGRGKQGGKARAKAKTRS

Sequence Identity

Human

Sequence Homology

Mouse

Expected Reactivity

Based on sequence identity and similarity,
reactivity to Human and Mouse are
predicted.

Storage

2-8°C for up to 1 month, -20°C for long term
storage. Avoid repeated freezing and
thawing.

Expiration Date

Expires one year from date of receipt when
stored as instructed.

Background

Histones are nuclear proteins that play an important role in maintaining the structure of the chromosome in eukaryotes (1). The nucleosome is made up of around 146bp of DNA, which enfolds around a histone octamer unit comprising of four major histones, H2A, H2B, H3 and H4. An important role of H2A is to ensure proper assembly or functioning of the centromere (2). They also play an important role in gene regulation. The protein can be modified by acetylation and phosphorylation (3).

References

- 1) Juan Ausio. 2006. Histone variants: the structure behind the function. Briefings in Functional Genomics and Proteomics. 228-243.
- 2) Inés Pinto and Fred Winston. 2000. Histone H2A is required for normal centromere function in *Saccharomyces cerevisiae*. The EMBO Journal. 1598 - 1612
- 3) Panagiotis Pantazis and William M. Bonner. 1980. Quantitative Determination of Histone Modification. The Journal of Biological Chemistry. 4669-4675

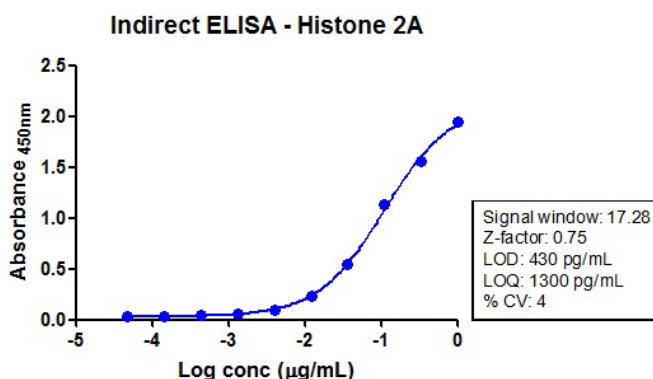
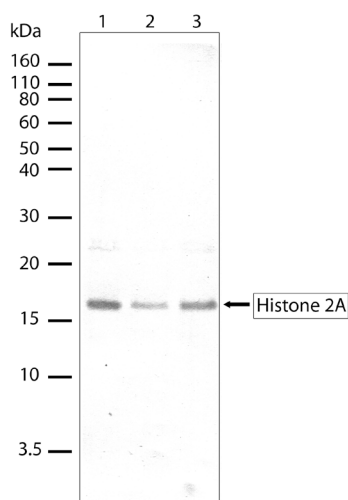
Applications:

	Species	Test Material	Concentration
Western Blotting	Human	HeLa	0.1 - 2 µg/ml
Indirect ELISA	Human	Recombinant Protein	4.7x10 ⁻⁵ - 1 µg/ml

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Western Blot of Histone 2A labeled with Histone 2A Rabbit Recombinant Monoclonal Antibody (Cat. No.700158).

Histone 2A Rabbit Recombinant Monoclonal Antibody (1 µg/mL) was used to detect Histone 2A in Lane 1: HeLa Cell Lysate (30µg/lane), Lane 2: NIH/3T3 Cell Lysate (30µg/lane), Lane 3: Cos7 Cell Lysate (30µg/lane). The western was performed using 5% milk in TBST as Blocking agent. GAR-AP (1:10,000) used as Secondary and developed with NBT/BCIP as the substrate.

Indirect ELISA of Histone 2A Rabbit Recombinant Monoclonal Antibody (Cat. No.700158).

Indirect ELISA was done using Histone 2A Rabbit Recombinant Monoclonal Antibody to detect the recombinant protein (100ng/well), using TMB (Cat. No. SB01) as substrate.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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