

## Anti-Histone H2A type 1-B/E Antibody (2D761)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2D761
Purification:	Affinity-chromatography

### Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none"> <li>-Positive WB detected in HepG2 whole cell lysate</li> <li>-All lanes Histone H2A type 1-B/E antibody at 2.7µg/ml</li> <li>-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution</li> <li>-Predicted band size: 13 KDa</li> </ul> <p>2. Immunofluorescence staining of Hela cells with TMAH-00551 at 1:168, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).</p>
Application:	ELISA, WB, IF
Recommended	WB:1:500-1:5000; IF:1:30-1:200.

### Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	A synthetic peptide
Antigen Species:	Human
Gene ID:	3012
Uniprot ID:	P04908
Synonyms:	H2A histone family member A; HIST2H2AA; H2A.1; H2A/m; HIST2H2AB; H2A; H2AFL; HIST2H2AC; H2AFO; H2AFE; H2A1B_HUMAN; Histone H2A/a; H2A/a; H2A/q; H2A.2; HIST1H2AJ; H2AFM; Histone 2 H2ac; Histone H2A.2; HIST1H2AE; H2a 615; Histone H2A/m; H2AFA; Histone H2A type 1 E; H2AFQ; Histone H2A type 1 B; Histone H2A type 1 C; H2A/O; Histone 2 H2ab; Histone 1 H2ae; Histone H2A type 1 J; H2A GL101; HIST2H2AA3; Histone 2 H2aa3; MGC74460
Biology Area:	Epigenetics and Nuclear Signaling

### Research Background

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to

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the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

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