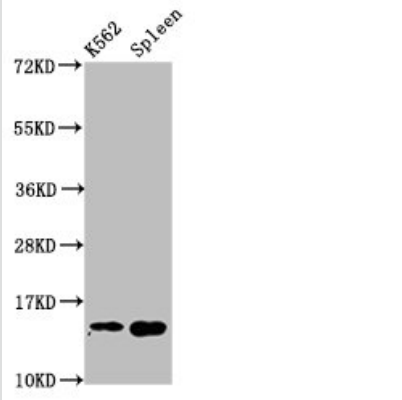
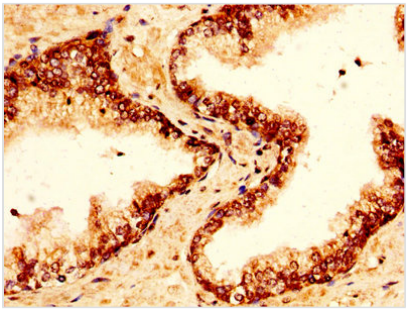
H2AFZ (Ab-4) Antibody

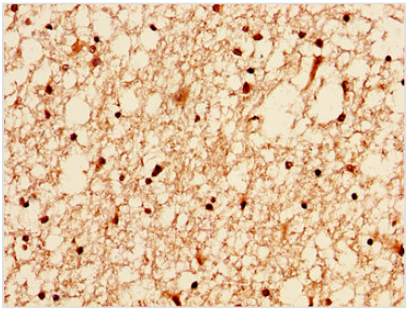
Product Code	CSB-PA010100OA04nacHU
Abbreviation	Histone H2A.Z
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P0C0S5
Immunogen	Peptide sequence around site of Lys (4) derived from Human Histone H2A.Z
Raised In	Rabbit
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, IHC, IF, IP, ChIP; Recommended dilution: WB:1:200-1:2000, IHC:1:20-1:200, IF:1:10-1:100, IP:1:200-1:2000
Relevance	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to 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. May be involved in the formation of constitutive heterochromatin. May be required for chromosome segregation during cell division.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purification Method	Antigen Affinity Purified
Isotype	IgG
Clonality	Polyclonal
Alias	Histone H2A.Z (H2A/z), H2AFZ, H2AZ
Species	Human
Research Area	Epigenetics and Nuclear Signaling
Target Names	H2AFZ
Image	



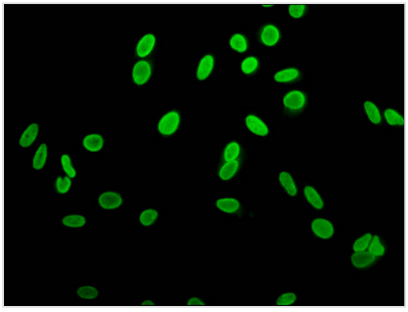
Western Blot
Positive WB detected in: K562 whole cell lysate, Mouse spleen tissue
All lanes: H2AFZ antibody at 1µg/ml
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 14 kDa
Observed band size: 14 kDa



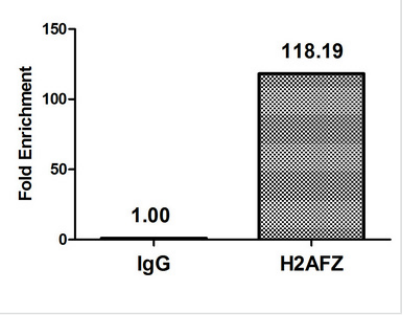
IHC image of CSB-PA010100OA04nacHU diluted at 1:50 and staining in paraffin-embedded human prostate tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



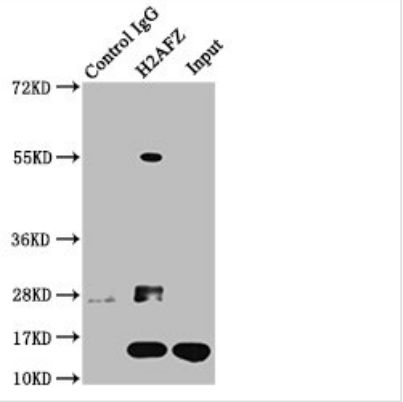
IHC image of CSB-PA010100OA04nacHU diluted at 1:50 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of Hela cells with CSB-PA010100OA04nacHU at 1:10, 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-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Chromatin Immunoprecipitation Hela ($4*10^6$) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-H2AFZ (CSB-PA010100OA04nacHU) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β-Globin promoter.



Immunoprecipitating H2AFZ in K562 whole cell lysate
Lane 1: Rabbit control IgG (1µg) instead of CSB-PA010100OA04nacHU in K562 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
Lane 2: CSB-PA010100OA04nacHU (8µg) + K562 whole cell lysate (500µg)
Lane 3: K562 whole cell lysate (10µg)