Data Sheet (Cat.No.TMAH-00903)

Anti-Phospho-Histone H1.4 (Thr17) Antibody (5D794)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5D794
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. IHC image of TMAH-00903 diluted at 1:100 and staining in paraffin-embedded human lymph node 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. 2. IHC image of TMAH-00903 diluted at 1:100 and staining in paraffin-embedded human pancreatic 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. 3. Immunofluorescence staining of MCF-7 cells with TMAH-00903 at 1:56,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).
Application:	ELISA,IF,IHC
Recommended	IHC:1:50-1:500; 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:	3008
Uniprot ID:	P10412
Synonyms:	H1.4;H1F4;p-Histone H1.4 (Thr17);Histone H1.4 (p-T17);Histone 1 H1e;Histone cluster 1 H1e; MGC116819;Histone H1.4 (p-Thr17);Hist1h1e;H1E;p-Histone H1.4 (T17);H1 histone family member 4;Histone H1B;Phospho-Histone H1.4 (T17);H14_HUMAN;Histone H1
Biology Area:	Epigenetics and Nuclear Signaling

Research Background

Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber. Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers. Acts also as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation.