

Histone H1(Thr17) polyclonal antibody

Catalog: AP0201

Host: Rabbit

Reactivity: Rat, Mouse, Human

Background:

Histones are evolutionarily conserved proteins that play a vital role in the compaction, storage, and regulation of DNA within the eukaryotic nucleus. The basic subunit of chromatin, the nucleosome core particle, is composed of DNA wound around two copies each of the core histone proteins H2A, H2B, H3, H4. Formation of higher order chromatin structure is facilitated through the binding of linker histone H1 to the nucleosome particle (chromatosome) (4-6). In humans and mice, there are 11 distinct histone H1 variants, which include the somatic variants (H1.1, H1.2, H1.3, H1.4, and H1.5) that are expressed ubiquitously, and cell type specific variants such as H1t found in the testis and H1.0 expressed in terminally differentiated cells. Binding of histone H1 to chromatin limits accessibility of DNA to other proteins by stabilizing nucleosome positioning, competing for binding sites, and limiting the activity of chromatin remodeling proteins such as the SWI/SNF complex. Histone H1 binding is highly dynamic and is thought to be regulated by post-translational modifications. For example, cell cycle regulated phosphorylation of histone H1 leads to chromatin condensation and decondensation depending on the site of phosphorylation and histone H1.4 Lys34 acetylation by GCN5 has been linked to increased mobility of H1.4 and transcriptional activation.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

Molecular Weight:

~ 35 kDa

Swiss-Prot:

Q02539

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:2000~1:5000

IF: 1:100~1:500

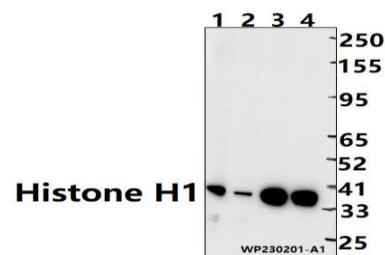
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Histone H1(Thr17) polyclonal antibody detects endogenous levels of Histone H1 protein.

DATA:



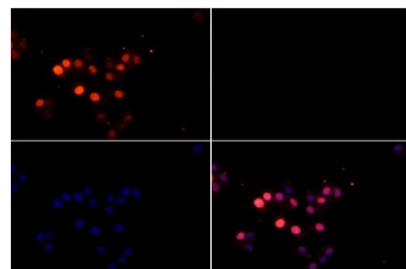
Western blot (WB) analysis of Histone H1(Thr17) polyclonal antibody at 1:2000 dilution

Lane1:PC12 whole cell lysate(30ug)

Lane2:BV2 whole cell lysate(30ug)

Lane3:HepG2 whole cell lysate(20ug)

Lane4:HCT116 whole cell lysate(20ug)



Immunofluorescence analysis of A2780 cells using Histone H1(Thr17) pAb at dilution of 1:200 (40x lens).

Note:

For research use only, not for use in diagnostic procedure.

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