



# Histone H1 rabbit pAb

Cat No.:ES2523

For research use only

## Overview

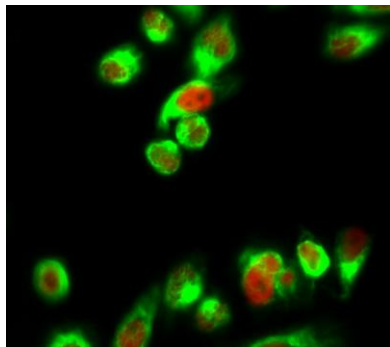
<b>Product Name</b>	Histone H1 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Histone H1. AA range:1-50
<b>Specificity</b>	Histone H1 Polyclonal Antibody detects endogenous levels of Histone H1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Histone H1.5
<b>Gene Name</b>	HIST1H1B
<b>Cellular localization</b>	Nucleus. Chromosome. According to PubMed:15911621 more commonly found in heterochromatin. According to PubMed:10997781 associates with actively transcribed chromatin and not heterochromatin.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	31 28kD
<b>Human Gene ID</b>	3009/3007/3008
<b>Human Swiss-Prot Number</b>	P16401/P16402/P10412
<b>Alternative Names</b>	HIST1H1B; H1F5; Histone H1.5; Histone H1a; Histone H1b; Histone H1s-3; HIST1H1D; H1F3; Histone H1.3;



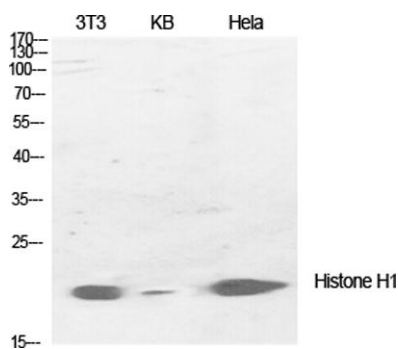


## Background

Histone H1c; Histone H1s-2; HIST1H1E; H1F4;  
Histone H1.4; Histone H1b; Histone H1s-4  
Histones are basic nuclear proteins responsible for nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H1 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015],



Immunofluorescence analysis of HeLa cell. 1, Histone H1 Polyclonal Antibody (red) was diluted at 1:200 (4° overnight).  $\alpha$ -SMA Monoclonal Antibody (6A12) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted a

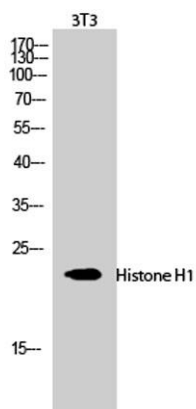


Western Blot analysis of various cells using Histone H1 Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent Biotech, MN, USA).



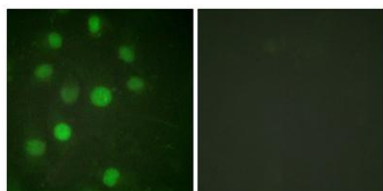


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Western Blot analysis of 3T3 cells using Histone H1 Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).

Immunofluorescence analysis of HUVEC cells, using Histone H1 Antibody. The picture on the right is blocked with the synthesized peptide.



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