



Histone H1 (phospho Thr17) Polyclonal Antibody

Catalog No	YP-Ab-01397
Isotype	IgG
Reactivity	Human;Mouse;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	HIST1H1B
Immunogen	The antiserum was produced against synthesized peptide derived from human Histone H1 around the phosphorylation site of Thr17. AA range:1-50
Specificity	Phospho-Histone H1 (T17) Polyclonal Antibody detects endogenous levels of Histone H1 protein only when phosphorylated at T17.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	H1 histone family member O oocyte specific;H1FOO;H1FOO_HUMAN;Histone H1oo;Oocyte-specific histone H1;Oocyte-specific linker histone H1;osH1;Histone H1;HIST1H1B;Histone H1.5;H1F5;Histone H1a;Histone H1b;Histone H1s-3;HIST1H1D;H1F3;Histone H1.3;Histone H1c;Histone H1s-2;HIST1H1E;H1F4;Histone H1.4;Histone H1s-4
Observed Band	31kD
Calculated Molecular Weight	31kD
Cell Pathway	Nucleus. Chromosome. According to PubMed:15911621 more commonly found in heterochromatin. According to PubMed:10997781 associates with actively transcribed chromatin and not heterochromatin.
Tissue Specificity	Ubiquitous. Expressed in the majority of the cell lines tested and in testis.
Function	function:Histones H1 are necessary for the condensation of nucleosome chains into higher order structures.,similarity:Belongs to the histone H1/H5 family.,

**Background**

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],

matters needing attention

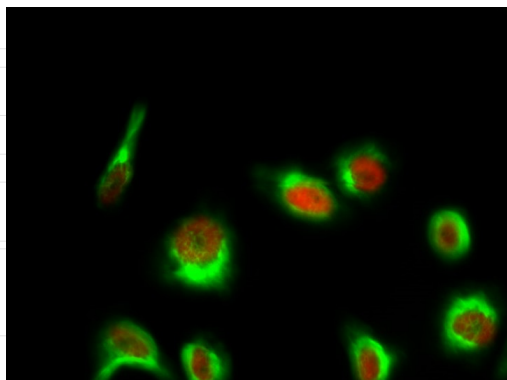
Avoid repeated freezing and thawing!

Usage suggestions

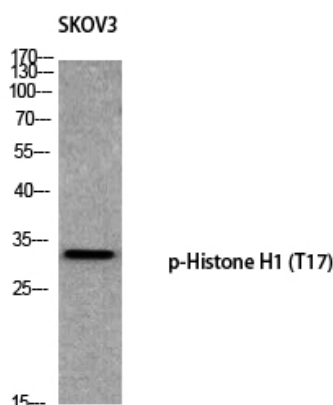
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



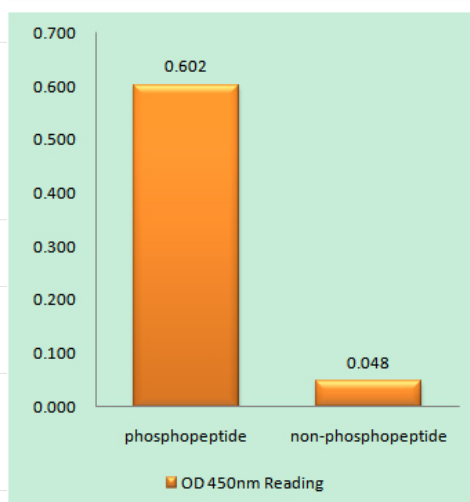
Products Images



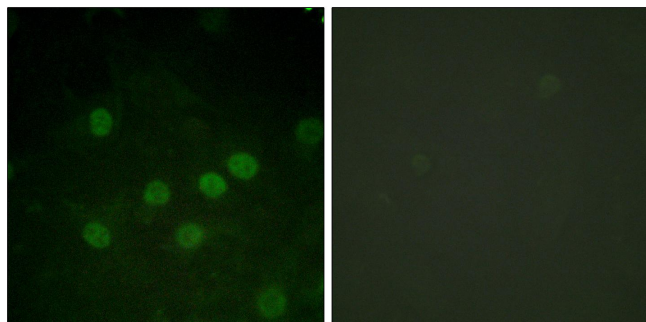
Immunofluorescence analysis of Hela cell. 1, Histone H1 (phospho Thr17) Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). NSE Monoclonal Antibody (13E2) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50min).



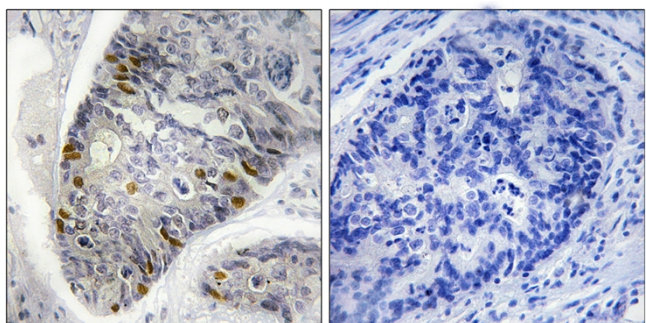
Western blot analysis of SKOV3 using p-Histone H1 (T17) antibody. Antibody was diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Histone H1 (Phospho-Thr17) Antibody



Immunofluorescence analysis of HUVEC cells treated with serum 20% 30', using Histone H1 (Phospho-Thr17) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using Histone H1 (Phospho-Thr17) Antibody. The picture on the right is blocked with the phospho peptide.

