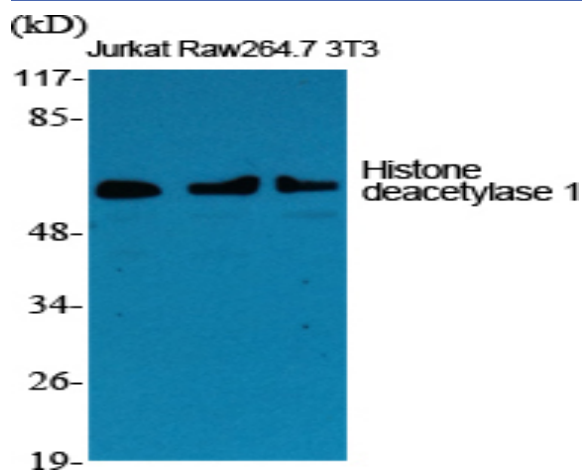


## Histone deacetylase 1 Polyclonal Antibody

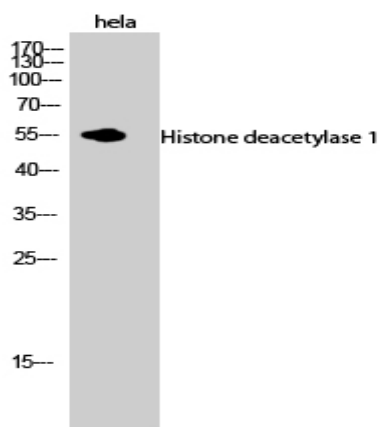
<b>Catalog No :</b>	YT2145
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	HDAC1
<b>Fields :</b>	>>Cell cycle;>>Longevity regulating pathway - multiple species;>>Notch signaling pathway;>>Neutrophil extracellular trap formation;>>Thyroid hormone signaling pathway;>>Huntington disease;>>Amphetamine addiction;>>Alcoholism;>>Human papillomavirus infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Viral carcinogenesis;>>MicroRNAs in cancer;>>Chronic myeloid leukemia
<b>Gene Name :</b>	HDAC1
<b>Protein Name :</b>	Histone deacetylase 1
<b>Human Gene Id :</b>	3065
<b>Human Swiss Prot No :</b>	Q13547
<b>Mouse Gene Id :</b>	433759
<b>Mouse Swiss Prot No :</b>	O09106
<b>Rat Gene Id :</b>	297893
<b>Rat Swiss Prot No :</b>	Q4QQW4
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human HDAC1. AA range:433-482
<b>Specificity :</b>	Histone deacetylase 1 Polyclonal Antibody detects endogenous levels of Histone deacetylase 1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	55kD
<b>Cell Pathway :</b>	Cell_Cycle_G1S;Cell_Cycle_G2M_DNA; Protein_Acetylation
<b>Background :</b>	<p>Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq, Jul 2008],</p>
<b>Function :</b>	<p>catalytic activity:Hydrolysis of an N(6)-acetyl-lysine residue of a histone to yield a deacetylated histone.,function:Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes.,PTM:Phosphorylation on Ser-421 and Ser-423 promotes enzymatic activity and interactions with NuRD and SIN3 complexes.,PTM:Sumoylated on Lys-444 and Lys-476; which promotes enzymatic activity. Desumoylated by SENP1.,similarity:Belongs to the histone deacetylase family. Type 1 subfamily.,subunit:Part of the core histone deacetylase (HDAC) complex composed of HDAC1, HDAC2, RBBP4 and RBBP7. The core complex associates</p>
<b>Subcellular Location :</b>	Nucleus .
<b>Expression :</b>	Ubiquitous, with higher levels in heart, pancreas and testis, and lower levels in kidney and brain.

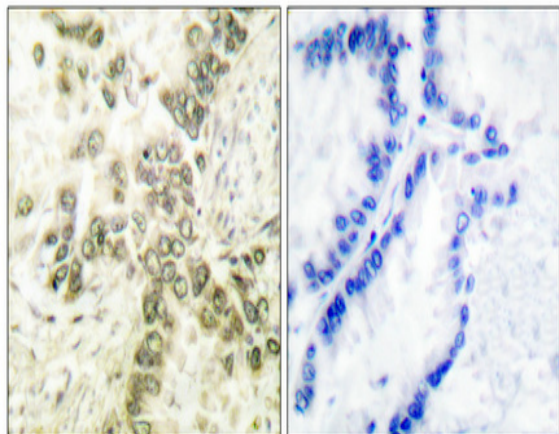
## Products Images



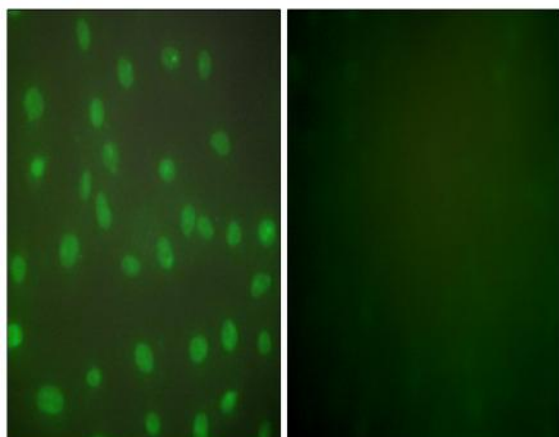
Western Blot analysis of various cells using Histone deacetylase 1 Polyclonal Antibody diluted at 1:1000



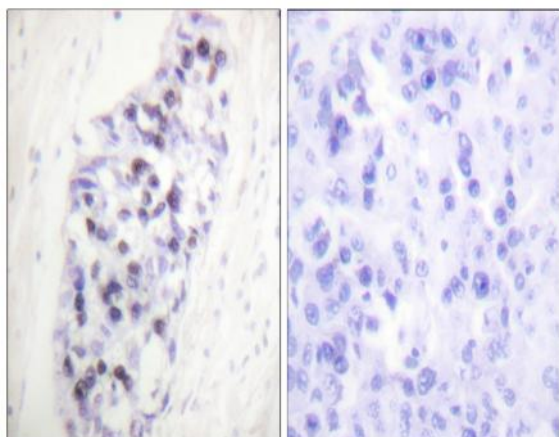
Western Blot analysis of hela cells using Histone deacetylase 1 Polyclonal Antibody diluted at 1:1000



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunofluorescence analysis of NIH/3T3 cells, using HDAC1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using HDAC1 Antibody. The picture on the right is blocked with the synthesized peptide.