

# HDAC1 antibody

**Cat. No. GTX20012**

<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Applications</b>	WB, ICC/IF, IP, ELISA, ChIP assay
<b>Reactivity</b>	Human, Mouse

**Package**  
50 µg

## Applications

### Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	Assay dependent
ICC/IF	1:200
IP	Assay dependent
ELISA	1:100 - 1:300
ChIP assay	2.4 µg

Not tested in other applications.

**Calculated MW** 55 kDa. ( [Note](#) )

## Properties

<b>Form</b>	Liquid
<b>Buffer</b>	buffer
<b>Preservative</b>	0.09% Sodium azide
<b>Storage</b>	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
<b>Concentration</b>	Batch dependent (Please refer to the vial label for the specific concentration.)
<b>Immunogen</b>	raised in rabbits against the C-terminal region of human HDAC1, using a KLH-conjugated synthetic peptide.
<b>Purification</b>	Purified by affinity chromatography
<b>Conjugation</b>	Unconjugated



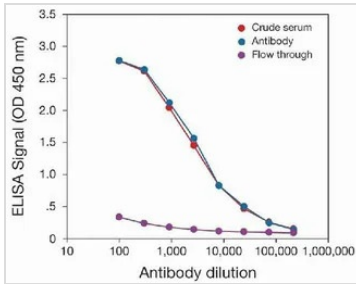
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#### Note

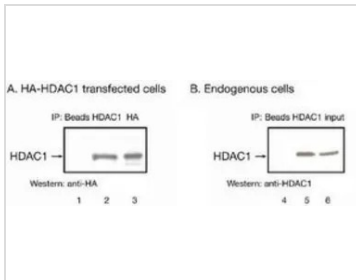
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#### DATA IMAGES



#### GTx20012 ELISA Image

To determine the titer, an ELISA was performed using anti-HDAC1 crude serum, purified anti-HDAC1 antibodies (GTx20012), and the column flow through obtained from the antibody purification step. The antigen used was the C-terminal peptide used for immunization. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:4,250.



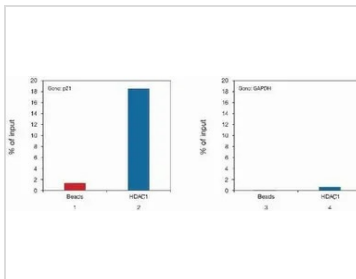
#### GTx20012 IP Image

Immunoprecipitation of HDAC1 was performed from HA-tagged HDAC1 transiently transfected HEK293T cell lysates (Panel A) or HeLa extract (Panel B) using GTx20012 HDAC1 antibody. WB was performed using anti- HA antibody or GTx20012 HDAC1 antibody as indicated.

Lane 1 and 4 : Beads only

Lane 2 and 5 : IP with 2 µg GTx20012 HDAC1 antibody

Lane 3 : IP with HA antibody as a control



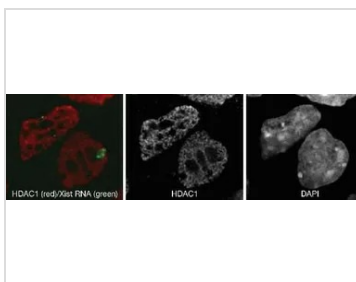
#### GTx20012 ChIP assay Image

ChIP analysis of U-2OS cells using GTx20012 HDAC1 antibody.

Left : ChIP results using the anti-HDAC1 antibody (bar 2) or beads only (bar 1) and PCR primers specific for p21

Right : ChIP results using the anti-HDAC1 antibody (bar 4) or beads only (bar 3) and PCR primers for GAPDH (used as negative control).

ChIP reaction : 2.4µg antibody / 1 million cells



#### GTx20012 ICC/IF Image

ICC/IF analysis of mouse differentiated ES cells using GTx20012 HDAC1 antibody. Subsequently, RNA FISH (fluorescence in situ hybridization) was performed to detect Xist RNA (green signal). Nuclei were DAPI-stained to specifically label the DNA.

Fixation : formaldehyde

Permeabilization : Triton X-100

Dilution : 1:200 and incubated for 45 minutes at room temperature



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