

## Anti-HDAC1 Polyclonal Antibody 3

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Dog,Pig,Cow,Sheep,GuineaPig)
Molecular Weight:	Theoretical: 53 kDa. Actual: 53 kDa.
Purification:	Protein A purified

### Applications

1. Blank control (Black line): Molt4 (Black).  
Primary Antibody (green line): Rabbit Anti-HDAC1 antibody (TMAB-06922)  
Dilution: 1 µg /10<sup>6</sup> cells;  
Isotype Control Antibody (orange line): Rabbit IgG.  
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647  
Dilution: 1 µg /test.

#### Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

2. Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

#### Verified Activity:

Incubation: Anti-HDAC1 Polyclonal Antibody, Unconjugated (TMAB-06922) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

3. Sample: Thymus (Mouse) Lysate at 40 µg

Primary: Anti-HDAC1 (TMAB-06922) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 53 kD

4. Sample:

Panc-1 (Human) Cell Lysate at 40 µg

Testis (Mouse) Lysate at 40 µg

Hela (Human) Lysate at 40 µg

Primary: Anti-HDAC1 (TMAB-06922) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 53 kD

## A DRUG SCREENING EXPERT

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Application: WB,IHC-P,IHC-Fr,IF,FCM

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1:50-300

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human HDAC1

Antigen Species: Human

Gene ID: 3065

Uniprot ID: Q13547

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### Research Background

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]

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481