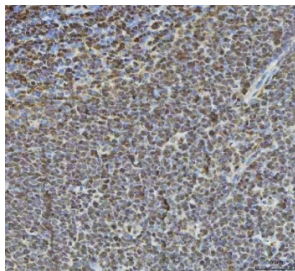


## Histone deacetylase 1 Antibody / HDAC1 (RQ7277)

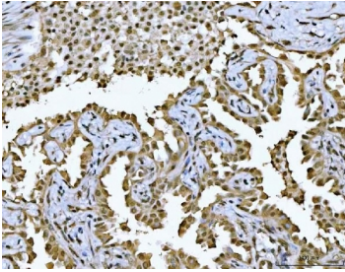
Catalog No.	Formulation	Size
RQ7277	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

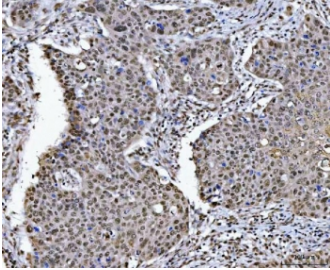
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	Q13547
<b>Localization</b>	Nuclear
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells
<b>Limitations</b>	This Histone deacetylase 1 antibody is available for research use only.



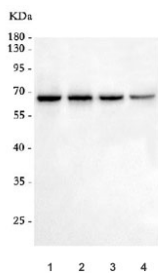
IHC staining of FFPE human tonsil tissue with Histone deacetylase 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



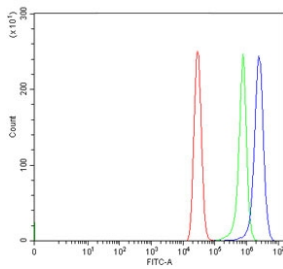
IHC staining of FFPE human lung cancer tissue with Histone deacetylase 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human esophageal squamous carcinoma tissue with Histone deacetylase 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) MOLT4, 2) Jurkat, 3) HL60 and 4) U-251 cell lysate with Histone deacetylase 1 antibody. Predicted molecular weight 55-60 kDa.



Flow cytometry testing of human MCF7 cells with Histone deacetylase 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Histone deacetylase 1 antibody.

## Description

Histone deacetylase 1 is an enzyme that in humans is encoded by the HDAC1 gene. 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. Furukawa et al.(1996) mapped RPD3L1 to 1p34.1 by fluorescence in situ hybridization.

## Application Notes

Optimal dilution of the Histone deacetylase 1 antibody should be determined by the researcher.

## Immunogen

Amino acids DDES YE AIFK PVM SKVM EMFQ were used as the immunogen for the Histone deacetylase 1 antibody.

## Storage

After reconstitution, the Histone deacetylase 1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.