

For Research Use Only

# HDAC6-specific Polyclonal antibody



Catalog Number: 16167-1-AP **2 Publications**

## Basic Information

<b>Catalog Number:</b> 16167-1-AP	<b>GenBank Accession Number:</b> BC005872	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 1300 µg/ml	<b>GeneID (NCBI):</b> 10013	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UBN7	
<b>Isotype:</b> IgG	<b>Full Name:</b> histone deacetylase 6	
	<b>Calculated MW:</b> 131 kDa	
	<b>Observed MW:</b> 130 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : MCF7 cells, HT-1080 cells, MCF-7 cells IHC : mouse brain tissue,
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> mouse, rat	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Histone deacetylases (HDAC) are a class of enzymes that remove the acetyl groups from the lysine residues leading to the formation of a condensed and transcriptionally silenced chromatin. At least 4 classes of HDAC were identified. HDAC6 is a member of the class II mammalian histone deacetylases. It possesses two separate putative catalytic domains. Both catalytic domains are fully functional HDACs and contribute independently to the overall activity of HDAC6 protein. A very potent NES is present at the amino-terminus of HDAC6, which was found to play an important role in regulating the shuttling of HDAC6 protein between cytoplasm and nucleus. The shuttling process may be a critical regulatory mechanism of HDAC6 function. The expression of HDAC6 is tightly linked to the state of cell differentiation. HDAC6 may participate in coordinating expression of a group of genes involved in the remodelling of chromatin during cell differentiation. This antibody is specific to HDAC6. It does not cross react with other HDACs.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jiajie Tu	35279703	Oncogene	WB, IHC
He Min M	23480850	J Cell Mol Med	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

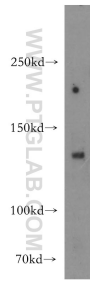
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

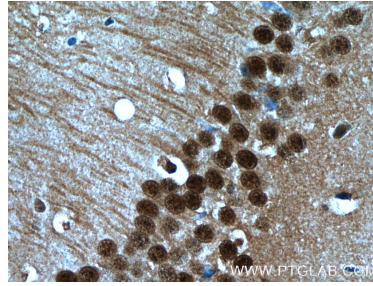
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



MCF7 cells were subjected to SDS PAGE followed by western blot with 16167-1-AP (HDAC6-specific antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16167-1-AP (HDAC6-specific antibody at dilution of 1:50 (under 40x lens).