

For Research Use Only

# HDAC5 Polyclonal antibody

Catalog Number: 29342-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 29342-1-AP	<b>GenBank Accession Number:</b> NM_005474	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10014	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UQL6	
<b>Isotype:</b> IgG	<b>Full Name:</b> histone deacetylase 5	
<b>Immunogen Catalog Number:</b> AG29122	<b>Calculated MW:</b> 122 kDa	
	<b>Observed MW:</b> 120-140 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, HepG2 cells, MCF-7 cells, PC-3 cells IHC : mouse brain tissue, IF/ICC : HepG2 cells,
<b>Cited Applications:</b> IHC	
<b>Species Specificity:</b> Human, mouse	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Histone acetylation and deacetylation alternately exposes and occludes DNA to transcription factors. At least 4 classes of HDAC were identified. HDAC5 is a class II HDAC. HDAC5 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. HDAC5 is involved in muscle maturation by repressing transcription of myocyte enhancer MEF2C. During muscle differentiation, HDAC5 shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zejun Fang	39731810	Transl Oncol	IHC

## Storage

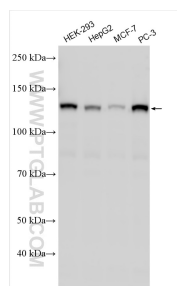
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

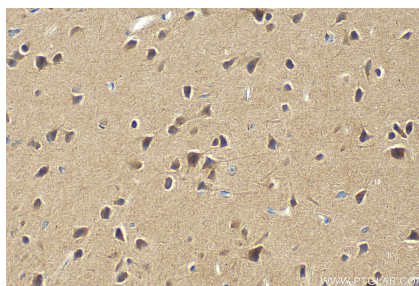
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

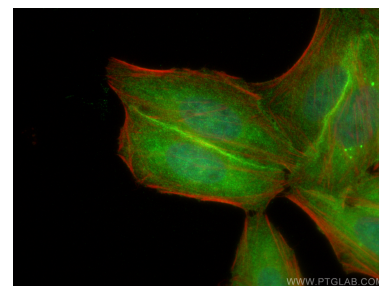
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29342-1-AP (HDAC5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29342-1-AP (HDAC5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using HDAC5 antibody (29342-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).