## For Research Use Only

## HDAC6 Monoclonal antibody

Catalog Number:67250-1-lg 1 Publications

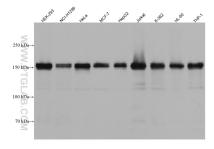


Basic Information	Catalog Number: GenBank Accession Number: 67250-1-lg BC013737		Number:	Purification Method: Protein A purification	
	Size: Genel D (NCBI):   1000 µ g/ml 10013			CloneNo.: 1C7C3	
	Source: UNIPROT ID:			Recommended Dilutions:	
	Mouse	Q9UBN7		WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:400-1:1600	
	Isotype: IgG1	Full Name: histone deacetylas	e 6		
	Immunogen Catalog Number: AG28585	Calculated MW: 1063 aa, 114 kDa, 1			
		Observed MW: 150-160 kDa			
Applications				Positive Controls: WB : HEK-293 cells, HeLa cells, NCI-H1299 cells, MCF- cells, HepG2 cells, Jurkat cells, K-562 cells, HL-60 cells THP-1 cells	
	Cited Applications: IF, WB		cells, HepG		
			IHC : humar tissue	HC : human lung cancer tissue, human breast cancer issue	
	Cited Species: IF : Hep0 mouse		IF : HepG2 c	G2 cells, SH-SY5Y cells	
	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 or cell differentiation. HDAC6 may participate in coordinating expression of a group of genes involved in the remodelling of chromatin during cell differentiation. HDAC6 has some splicing variants such as P114(~130kd), P131(~160kd).This antibody is raised against residues near the C terminal of human HDAC6. The calculated molecular weight of HDAC6 is 130 kDa, but the modified the HDAC6 is about 150-160 kDa.				
Notable Publications	Author	Pubmed ID Jou	irnal	Applicati	on
	Pratibha Verma	36788143 Ce	l Tissue Res	WB,IF	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide ar Aliquoting is unnecessary for -20	d 50% glycerol pH 7.3.			

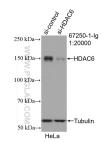
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

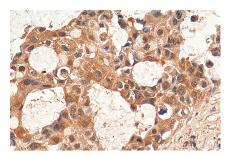
## Selected Validation Data



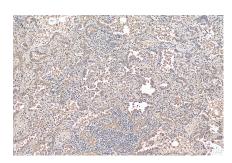
Various lysates were subjected to SDS PAGE followed by western blot with 67250-1-lg (HDAC6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



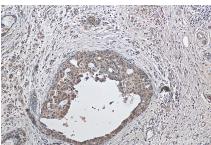
WB result of HDAC6 antibody (67250-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HDAC6 transfected HeLa cells.



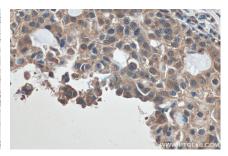
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 67250-1-1g (HDAC6 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



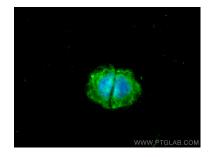
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 67250-1-1g (HDAC6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



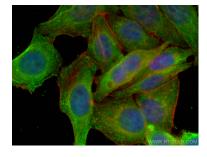
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 67250-1-1g (HDAC6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 67250-1-1g (HDAC6 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed SH-SYSY cells using HDAC6 antibody (67250-1-1g, Clone: 1C7C3) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using HDAC6 antibody (67250-1-lg, Clone: 1C7C3) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).