

CoraLite® Plus 488-conjugated HDAC6 Monoclonal antibody

Catalog Number: **CL488-67250**

Basic Information

Catalog Number: CL488-67250	GenBank Accession Number: BC013737	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 10013	CloneNo.: 1C7C3
Source: Mouse	UNIPROT ID: Q9UBN7	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: histone deacetylase 6	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG28585	Calculated MW: 1063 aa, 114 kDa, 131 kDa	
	Observed MW: 150-160 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : SH-SY5Y cells,
Species Specificity: human	

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. 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.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
 Aliquoting is unnecessary for -20°C storage

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

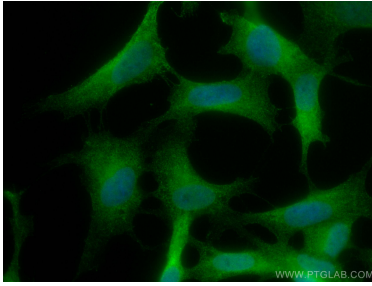
T: 4006900926

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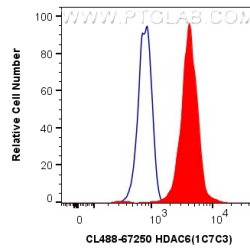
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using CoraLite® Plus 488 HDAC6 antibody (CL488-67250, Clone: 1C7C3) at dilution of 1:200.



1X10⁶ SH-SY5Y cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human HDAC6 (CL488-67250, Clone:1C7C3) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).