Histone deacetylase 3 Polyclonal Antibody

Catalog No: #42202

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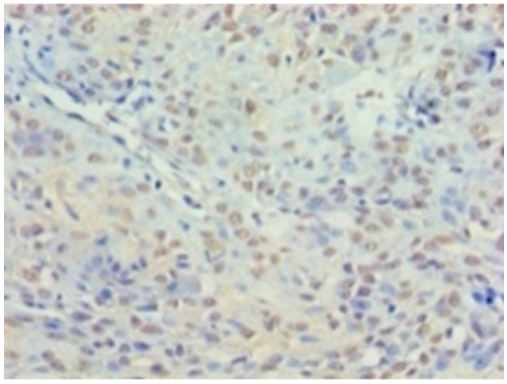
Description

Product Name	Histone deacetylase 3 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Histone deacetylase 3 polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Histone deacetylase 3 proteinB£B¨1-428aaB£B©
Target Name	Histone deacetylase 3
Other Names	HD3, RPD3-2, SMAP45, HDAC3
Accession No.	Swiss-Prot#: O15379
Uniprot	O15379
GeneID	8841;
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Immunohistochemistry: 1:20 - 1:200

Images



Immunohistochemical analysis of paraffin-embedded human breast cancer using #42202 at dilution of 1:100.

Background

Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4), and some other non-histone substrates. 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. Participates in the BCL6 transcriptional repressor activity by deacetylating the H3 'Lys-27' (H3K27) on enhancer elements, antagonizing EP300 acetyltransferase activity and repressing proximal gene expression. Probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1;

increases YY1 repression activity. Required to repress transcription of the POU1F1 transcription factor. Acts as a molecular chaperone for shuttling phosphorylated NR2C1 to PML bodies for sumoylation.

References

[1]"A hybrid mechanism of action for BCL6 in B cells defined by formation of functionally distinct complexes at enhancers and promoters." Hatzi K., Jiang Y., Huang C., Garrett-Bakelman F., Gearhart M.D., Giannopoulou E.G., Zumbo P., Kirouac K., Bhaskara S., Polo J.M., Kormaksson M., Mackerell A.D. Jr., Xue F., Mason C.E., Hiebert S.W., Prive G.G., Cerchietti L., Bardwell V.J., Elemento O., Melnick A. Cell Rep. 4:578-588(2013) . [2]"Acetylation of a conserved lysine residue in the ATP binding pocket of p38 augments its kinase activity during hypertrophy of cardiomyocytes." Pillai V.B., Sundaresan N.R., Samant S.A., Wolfgeher D., Trivedi C.M., Gupta M.P. Mol. Cell. Biol. 31:2349-2363(2011). [3]"Initial characterization of the human central proteome." Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuemmer T., Bennett K.L., Superti-Furga G., Colinge J. BMC Syst. Biol. 5:17-17(2011).

Note: This product is for in vitro research use only