Product Datasheet

HDAC3 Antibody

Catalog No: #33400

Package Size: #33400-1 50ul #33400-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	HDAC3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total HDAC3 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from C-terminal of human HDAC3.
Target Name	HDAC3
Other Names	Histone deacetylase 3; HD3; RPD3-2; SMAP45;
Accession No.	Swiss-Prot: O15379NCBI Gene ID: 8841
Uniprot	O15379
GeneID	8841;
SDS-PAGE MW	50kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

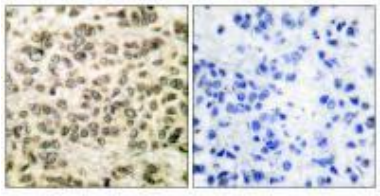
Application Details

Western blotting: 1:500~1:3000

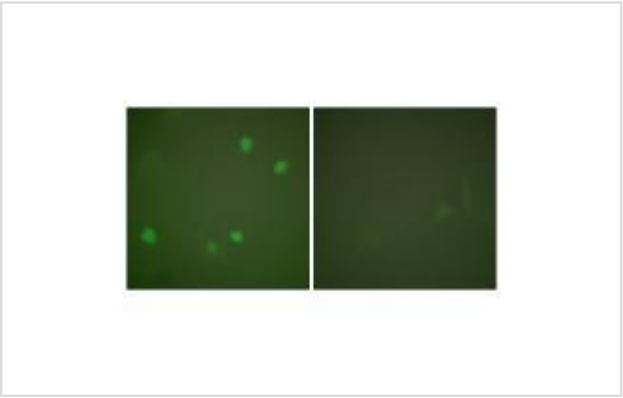
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:500

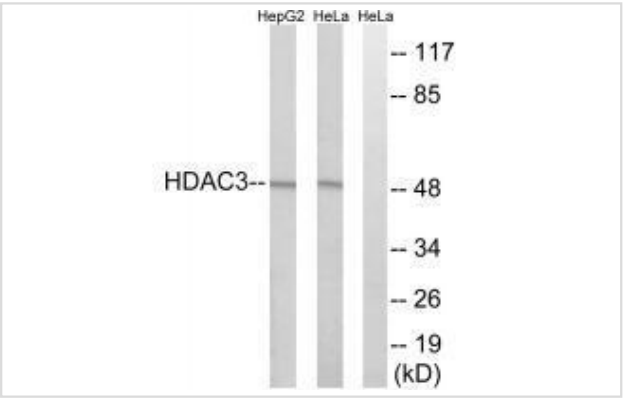
Images



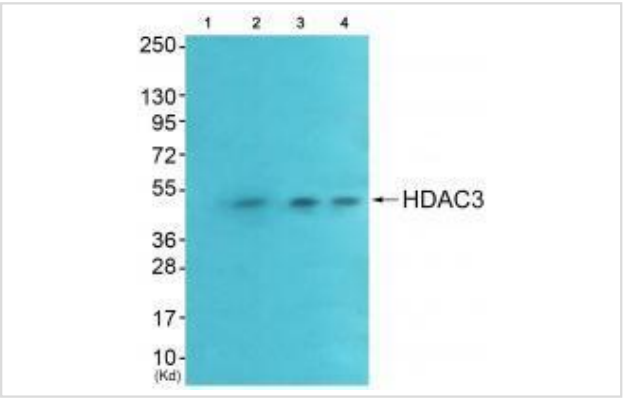
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HDAC3 antibody #33400.



Immunofluorescence analysis of COS7 cells, using HDAC3 antibody #33400.



Western blot analysis of extracts from HepG2 cells, using HDAC3 antibody #33400.



Western blot analysis of extracts from HeLa cells (Lane 2), A549 cells (Lane 3) and HepG2 cells (Lane 4), using HDAC3 antiobdy #33400. The lane on the left is treated with systhesized peptide.

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.

Xiaohong Zhang, Genes & Dev., Apr 2005; 19: 827 - 839.

Zhanguo Gao, J. Biol. Chem., Feb 2006; 281: 4540 - 4547. Andrew J. Wilson, J. Biol. Chem., May 2006; 281: 13548 - 13558.

Note: This product is for in vitro research use only