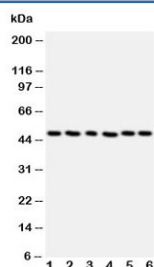


HDAC3 Antibody (R30679)

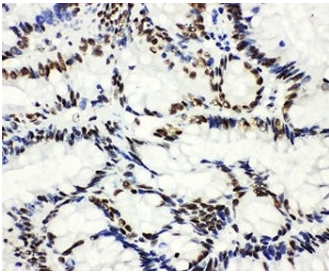
Catalog No.	Formulation	Size
R30679	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

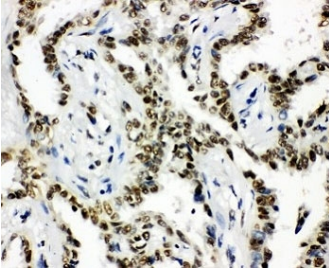
Availability	1-2 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	O15379
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml IHC (Frozen) : 0.5-1ug/ml Immunocytochemistry : 0.5-1ug/ml
Limitations	This HDAC3 antibody is available for research use only.



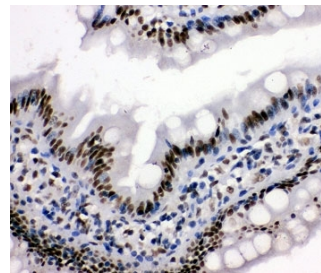
Western blot testing of HDAC3 antibody and Lane 1: rat stomach; 2: rat testis; 3: MCF-7; 4: HeLa; 5: Jurkat; 6: SKOV cell lysate. Predicted molecular weight ~49 kDa.



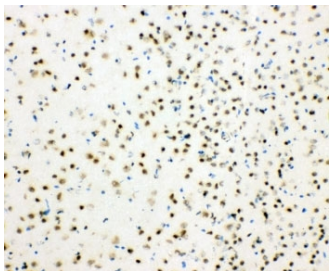
IHC-P: HDAC3 antibody testing of human intestinal cancer tissue.



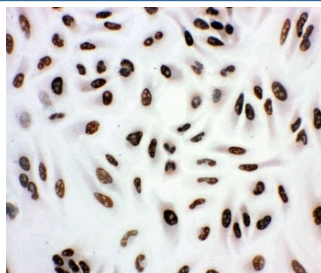
IHC-P: HDAC3 antibody testing of human lung cancer tissue.



IHC-P: HDAC3 antibody testing of rat intestine tissue.



IHC-F testing of mouse brain tissue.



ICC staining of human A549 cells.

Description

Histone deacetylase 3 is a member of the histone deacetylase/acuc/apha family of proteins and is an enzyme that in humans is encoded by the HDAC3 gene. The enzyme has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. The protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. And this gene is regarded as a potential tumor suppressor gene. HDAC3 has an open reading frame of 428 amino acids and shares 53% amino acid identity with HDAC1 and 52% with HDAC2. The catalytic domain of HDAC4 interacts with HDAC3 via the transcriptional corepressor NCOR2. All experimental conditions leading to the suppression of HDAC4 binding to NCOR2 and to HDAC3 resulted in loss of enzymatic activity associated with HDAC4.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the HDAC3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 411-428 (NEFYDGDHDNDKESDVEI) were used as the immunogen for this HDAC3 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the HDAC3 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.