



HDAC2 Rabbit mAb

Catalog No	YP-rAb-18072
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	HDAC2
Protein Name	Histone deacetylase 2
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-500; WB 1:1000-5000; IF 1:200-1000; ELISA 1:5000-20000; IP 1:50-200 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	HDAC2 ; Histone deacetylase 2 ; HD2
Observed Band	55kD
Calculated Molecular Weight	55kD
Cell Pathway	Nuclear
Tissue Specificity	Widely expressed; lower levels in brain and lung.
Function	Catalytic activity:Hydrolysis of an N(6)-acetyl-lysine residue of a histone to yield a deacetylated histone.,Function:Forms transcriptional repressor complexes by associating with MAD, SIN3, YY1 and N-COR. Interacts in the late S-phase of DNA-replication with DNMT1 in the other transcriptional repressor complex composed of DNMT1, DMAP1, PCNA, CAF1.,Function:Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). 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.,sequence Caution:Intron retention.,similarity:Belongs to the histone deacetylase family, Type 1 subfamily.,subunit:Interacts with the non-histone region of H2AFY (By similarity). Part of the core histone deacetylase (HDAC) complex composed of HDAC1, HDAC2, RBBP4 and RBBP7. The core

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complex associates with MTA2, MBD3, MTA1L1, CHD3 and CHD4 to form the nucleosome remodeling and histone deacetylation (NuRD) complex, or with SIN3, SAP18 and SAP30 to form the SIN3 HDAC complex. Component of a BHC histone deacetylase complex that contains HDAC1, HDAC2, HMG20B/BRAF35, AOF2/LSD1, RCOR1/CoREST and PHF21A/BHC80. The BHC complex may also contain ZMYM2, ZNF217, ZMYM3, GSE1 and GTF2I. Part of a complex containing the core histones H2A, H2B, H3 and H4, DEK and unphosphorylated DAXX. Part of a complex containing ATR and CHD4. Forms a heterologous complex at least with YY1. Interacts with ATR, DNMT1, MINT, HDAC7, HDAC10, HCFC1, NRIP1, MJD2A/JHDM3A, PRDM6, SAP30, SETDB1 and SUV39H1. Interacts with the non-histone region of H2AFY. Interacts with PELP1. Component of a mSin3A corepressor complex that contains SIN3A, SAP130, SUDS3/SAP45, ARID4B/SAP180, HDAC1 and HDAC2. Interacts with CBFA2T3. Interacts with SAP30L.,tissue specificity:Widely expressed; lower levels in brain and lung.,

Background

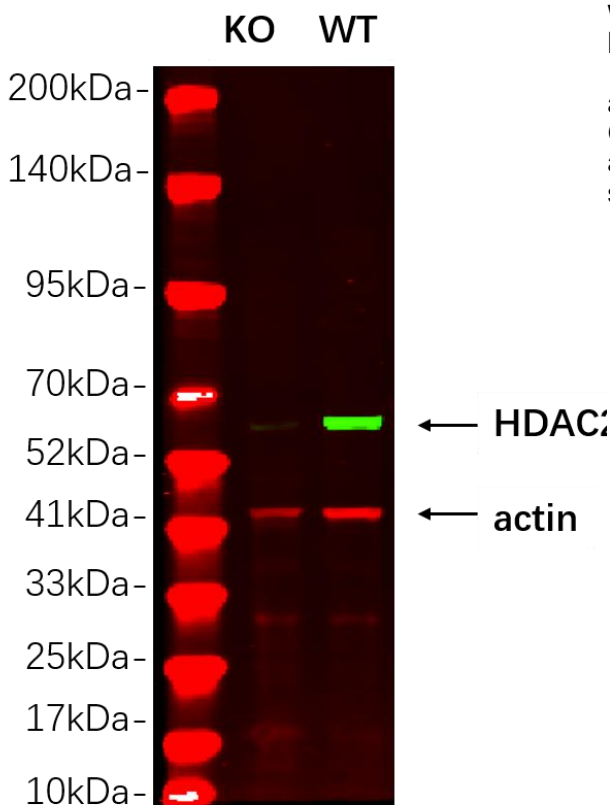
This gene product belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes, and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). This protein forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010],

matters needing attention

Avoid repeated freezing and thawing!

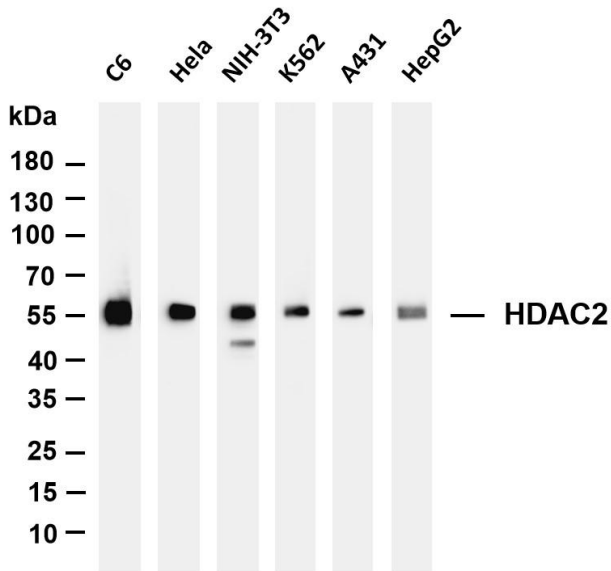
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

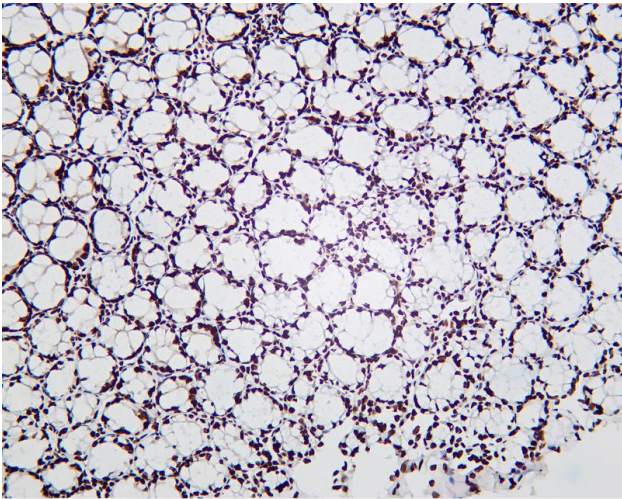


Western blot analysis of lysates from HAP1 WT and knockout cell, (Green) primary antibody was diluted at 1:5000, 4° over night, Dylight 800 secondary antibody was diluted at 1:10000, 37° 1hour. (Red) GAPDH Monoclonal Antibody(5B7) antibody was diluted at 1:5000 as loading control, 4° over night, Dylight 680 secondary antibody was diluted at 1:10000, 37° 1hour.

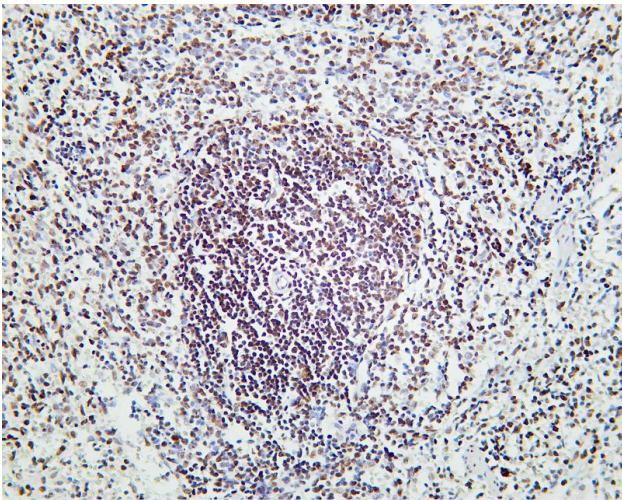




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-HDAC2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: HeLa Lane 3: NIH-3T3 Lane 4: K562 Lane 5: A431 Lane 6: HepG2 Predicted band size: 55kDa Observed band size: 55kDa

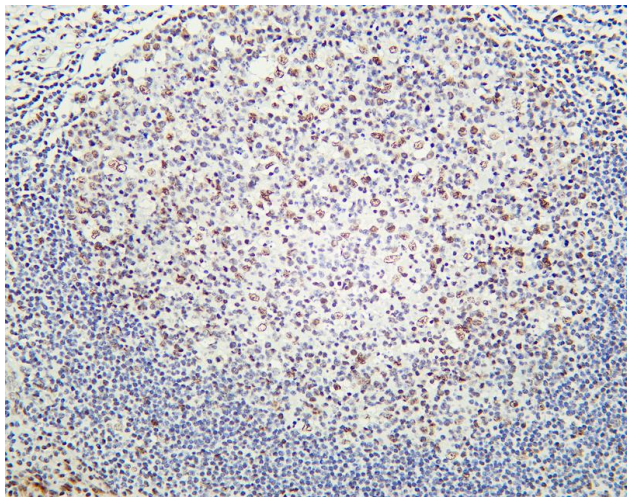


Mouse colon was stained with Anti-HDAC2 rabbit antibody



Rat spleen was stained with Anti-HDAC2 rabbit antibody





Human tonsil was stained with Anti-HDAC2 rabbit antibody

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