

[KD Validated] Anti-HDAC4 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

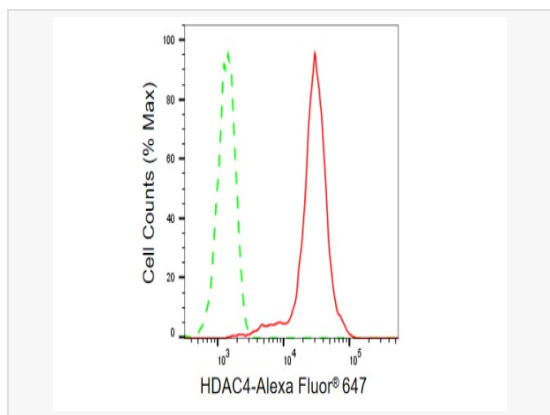
Catalog # R020827

Product Information

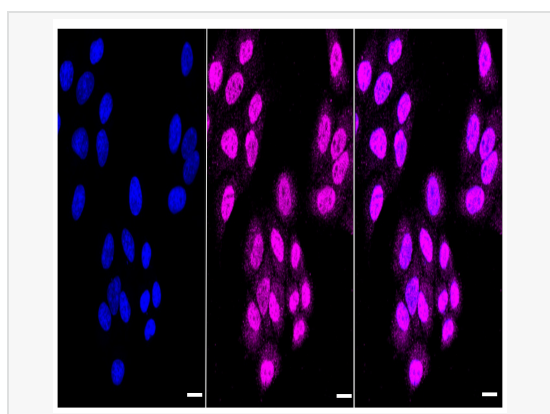
Application	WB, FC, IF (Cell)/ICC
Reactivity	Human
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	84B94Q32
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human HDAC4
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-HDAC4 Rabbit mAb [84B94Q32] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

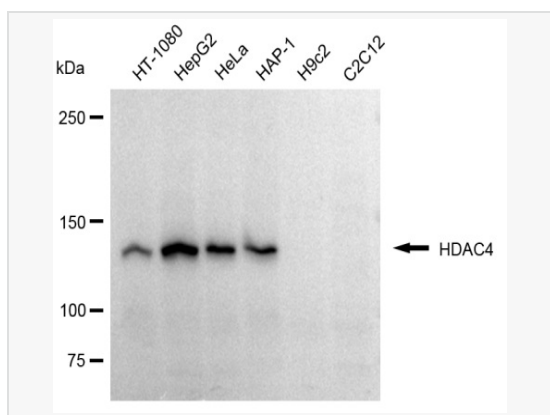
Synonyms	Histone Deacetylase 4; HD4; KIAA0288; HDAC-A; HA6116; HDAC-4; HDACA; EC 3.5.1.98; BDMR; Brachydactyly-Mental Retardation Syndrome; Histone Deacetylase A; NEDCHID; NEDCHF; AHO3.
Calculated MW	Calculated MW: 120 kDa, Observed MW: 140 kDa
Uniprot ID	P56524
Gene ID	9759
Background	Responsible for 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. Involved in muscle maturation via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D.



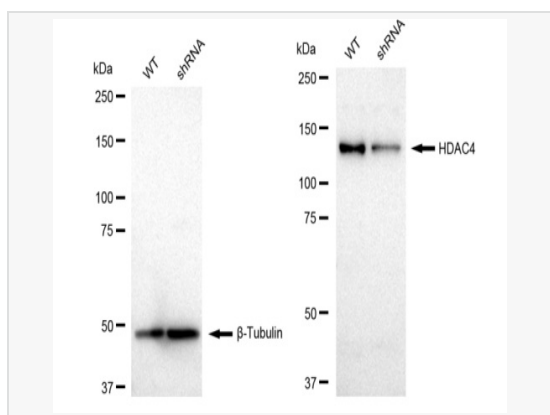
Flow cytometric analysis of HDAC4 expression in HepG2 cells using HDAC4 antibody (R020827, 1:2,000). Green, isotype control; red, HDAC4.



Immunocytochemical staining of HepG2 cells with HDAC4 antibody (R020827, 1:1,000). Nuclei were stained blue with DAPI; HDAC4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Western blotting analysis using HDAC4 antibody (R020827). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with HDAC4 antibody (R020827, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using HDAC4 antibody (R020827). HDAC4 expression in wild type (WT) and HDAC4 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with HDAC4 antibody (R020827, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.