

Basic Information

Product Name	Anti-HDAC2 Antibody
Gene Name	HDAC2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human HDAC2, identical to the related rat sequence, and different from the related mouse sequence by one amino acid.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	60 kDa
Dilution Ratios	Western blot (WB):1:500-2000

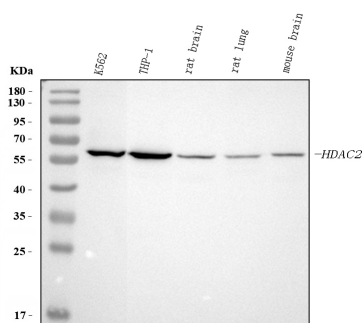
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Histone deacetylase 2 is an enzyme that in humans is encoded by the HDAC2 gene. 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 on the N-terminal region of the core histones(H2A, H2B, H3 and H4). This protein also 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. Betz et al.(1998) performed PCR using HDAC2-specific primers to screen a somatic cell hybrid mapping panel. They mapped the HDAC2 gene to human chromosome 6q21, a region of the genome altered in some cancers, including retinoblastoma.

Selected Validation Data



Western blot analysis of HDAC2 using anti-HDAC2 antibody (BA0915). The sample well of each lane was loaded with 30 μ g of sample under reducing conditions.

Lane 1: K562 whole cell tissue lysates,

Lane 2: THP-1 whole cell tissue lysates,

Lane 3: rat brain tissue lysates,

Lane 4: rat lung tissue lysates,

Lane 5: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-HDAC2 antigen affinity purified polyclonal antibody (BA0915) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected

for HDAC2 at approximately 60 kDa. The expected band size for HDAC2 is at 55 kDa.