

## HDAC2 Polyclonal Antibody

### Product Information

**Cat. No.:** A340539

**Reactivity:** Human, Mouse, Rat, Monkey

**Application:** WB, IHC, IF, ELISA

**Target:** HDAC2

**Gene Name:** Histone deacetylase 2

**Observed MW:** 55kDa

**Immunogen:** Synthesized peptide derived from human HDAC2. AA range:360-409.

**Source:** Rabbit IgG

**Purification:** Antigen affinity purification

**Human Gene ID(NCBI):** 3066

**Human Swiss Prot:** Q92769

**Mouse Gene ID:** 15182

**Mouse Swiss Prot:** P70288

**Recommended Dilutions:** WB 1:500-1:2000. IHC 1:100-1:300. ELISA 1:40000. IF 1:50-1:200.

**Storage Buffer:** PBS with 50% glycerol, 0.5% BSA and 0.02% sodium azide.

## Background Information

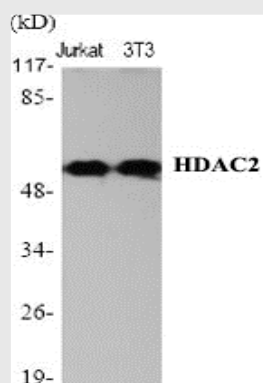
This gene product belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). This protein forms transcriptional repressor 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].

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)

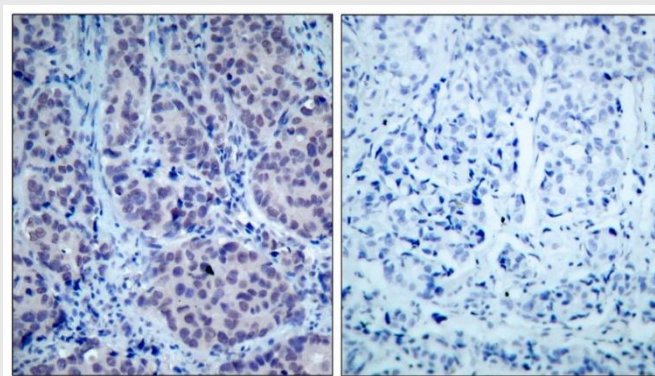
## Storage Conditions

Storage at -20°C for 1 year. Avoid repeated freeze-thaw.

## Validated Data



Western Blot analysis of various cells using HDAC2 Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using HDAC2 Antibody. The picture on the right is blocked with the synthesized peptide.

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