

## Product datasheet for **TA349073**

### HDAC2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, IHC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	HDAC2 antibody was raised against an 18 amino acid peptide near the carboxy terminus of human HDAC2.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	HDAC2 antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 54 kDa; Observed: 52 kDa
Gene Name:	histone deacetylase 2
Database Link:	<a href="#">NP_001518</a> <a href="#">Entrez Gene 15182 Mouse</a> <a href="#">Entrez Gene 84577 Rat</a> <a href="#">Entrez Gene 3066 Human</a> <a href="#">Q92769</a>

**Background:** The histone deacetylase (HDAC) family contains multiple members which are divided into four classes. Class I of the HDAC family comprises four members, HDAC1, 2, 3, and 8, each of which contains a deacetylase domain and exhibits a different, individual substrate specificity and function in vivo (1). HDAC2 was first identified as a mammalian homolog to the yeast transcriptional regulator RPD3 (2). HDAC2 forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor (2,3). Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events (4).



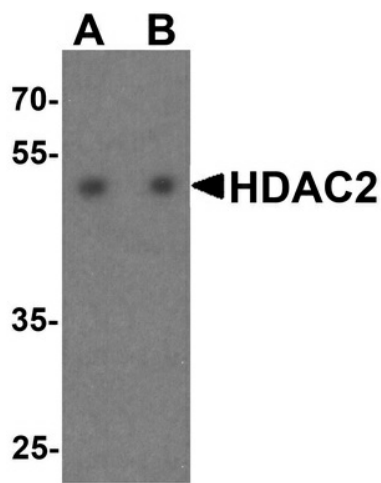
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**Synonyms:** HD2; RPD3; YAF1

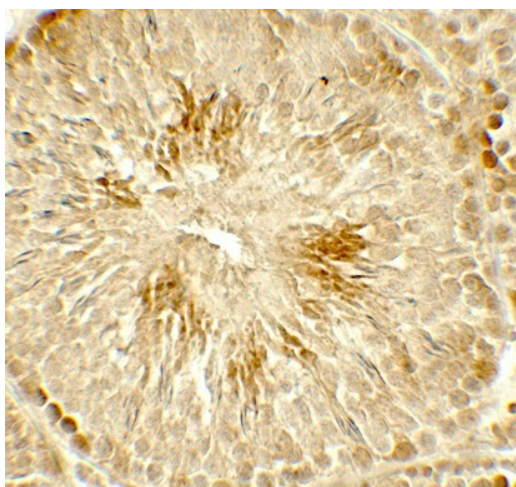
**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:** Cell cycle, Chronic myeloid leukemia, Huntington's disease, Notch signaling pathway, Pathways in cancer

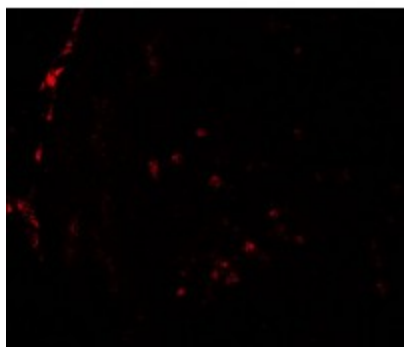
**Product images:**



Western blot analysis of HDAC2 in HeLa cell lysate with HDAC2 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunohistochemistry of HDAC2 in rat testis tissue with HDAC2 antibody at 5 ug/mL.



Immunofluorescence of HDAC2 in rat testis tissue with HDAC2 antibody at 20 ug/mL.