

# Rabbit anti-human HDAC2 Polyclonal Antibody

Catalog Number: R16033P

General Information	
<b>Immunogen</b>	A synthetic peptide of human HDAC2
<b>IgG type</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Specificity</b>	human HDAC2
<b>Applications &amp; dilution</b>	WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:20 - 1:50
<b>Formulation</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Purity</b>	≥95% purity by SDS-PAGE
<b>Storage</b>	Store at -20°C. Avoid freeze / thaw cycles.
<b>Abbreviation:</b> ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immunohistochemistry; IF: immunofluorescence. WB: western blot; FC: flowcytometry	

**Background**  
Acetylation of the histone tail causes chromatin to adopt an "open" conformation, allowing increased accessibility of transcription factors to DNA. The identification of histone acetyltransferases (HATs) and their large multiprotein complexes has yielded important insights into how these enzymes regulate transcription. HAT complexes interact with sequence-specific activator proteins to target specific genes. In addition to histones, HATs can acetylate non-histone proteins, suggesting multiple roles for these enzymes. In contrast, histone deacetylation promotes a "closed" chromatin conformation and typically leads to repression of gene activity. Mammalian histone deacetylases can be divided into three classes on the basis of their similarity to various yeast deacetylases. Class I proteins (HDACs 1, 2, 3, and 8) are related to the yeast Rpd3-like proteins, those in class II (HDACs 4, 5, 6, 7, 9, and 10) are related to yeast Hda1-like proteins, and class III proteins are related to the yeast protein Sir2. Inhibitors of HDAC activity are now being explored as potential therapeutic cancer agents. HDAC1 and HDAC2 are highly homologous and are involved in histone deacetylation, chromatin remodeling and transcriptional repression. Both proteins are found together in numerous complexes including the nucleosome remodeling and deacetylation complex (NuRD), MeCP1, and the mSin3A corepressor complex.

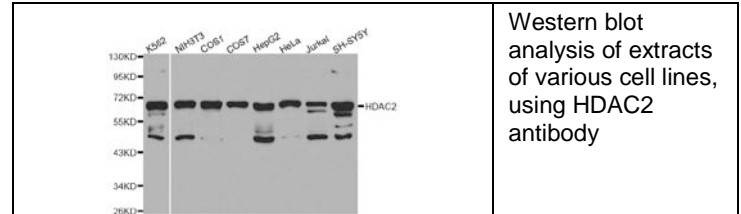
**For research use only**

## Preparation

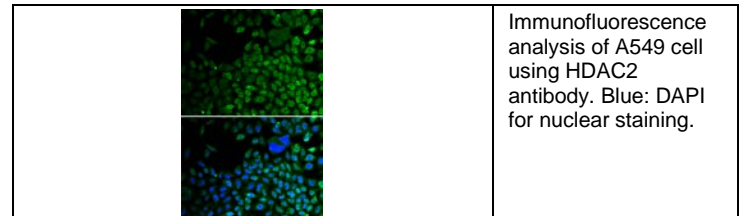
Polyclonal antibody is produced by immunizing rabbit with a synthetic peptide of human HDAC2 and purified using protein A resin.

## Applications

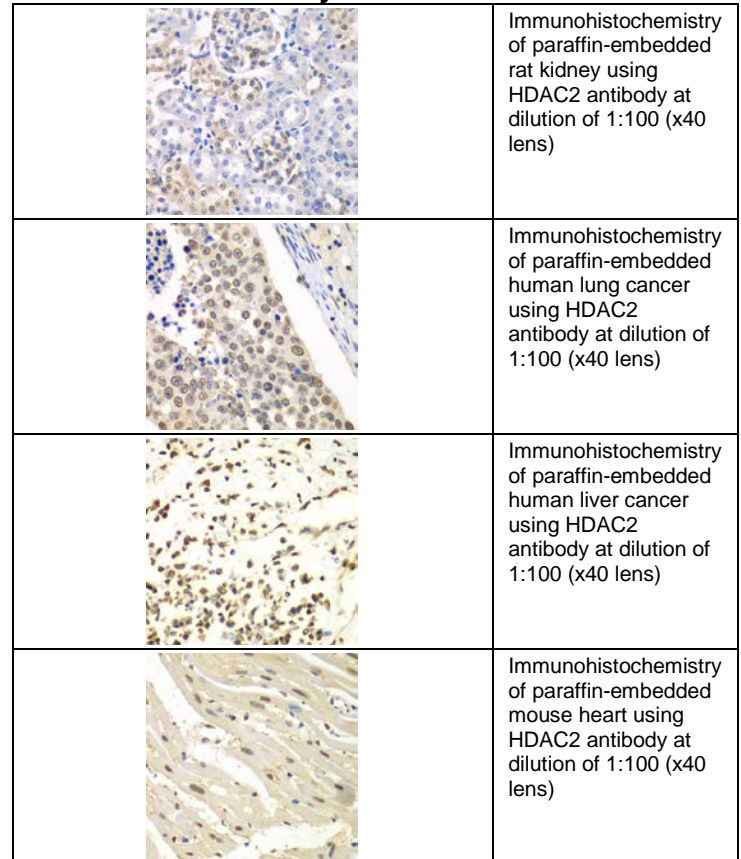
### Western blot



### Immunofluorescence



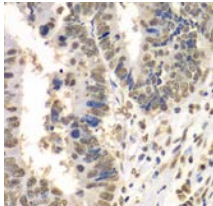
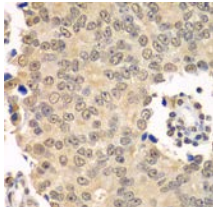
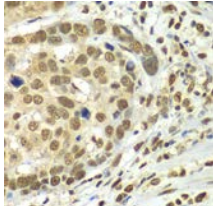
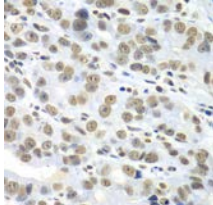
### Immunohistochemistry



## Rabbit anti-human HDAC2 Polyclonal Antibody

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### Immunohistochemistry

	Immunohistochemistry of paraffin-embedded human colon carcinoma using HDAC2 antibody at dilution of 1:100 (x40 lens)
	Immunohistochemistry of paraffin-embedded human prostate cancer using HDAC2 antibody at dilution of 1:100 (x40 lens)
	Immunohistochemistry of paraffin-embedded human esophageal cancer using HDAC2 antibody at dilution of 1:100 (x40 lens)
	Immunohistochemistry of paraffin-embedded human gastric cancer using HDAC2 antibody at dilution of 1:100 (x40 lens)

### Storage

This antibody is shipped at 4 °C. This product is stable for 12 months from date of receipt when stored at -20 °C to -70 °C. Avoid freeze/thaw cycles.

### Hazard/Biohazard

This antibody contains 0.02% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.

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