

## Product datasheet for **AP08440PU-N**

### HDAC4 (194-209) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	<b>ChIP.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Immunoprecipitation.</b> <b>Western Blot:</b> 5 - 2 µg/ml.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding amino acids 194-209 of human HDAC4.
Specificity:	This antibody recognizes Histone Deacetylase 4 (HDAC4).
Formulation:	PBS containing 0.02% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein G Chromatography.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	histone deacetylase 4
Database Link:	<a href="#">Entrez Gene 9759 Human P56524</a>



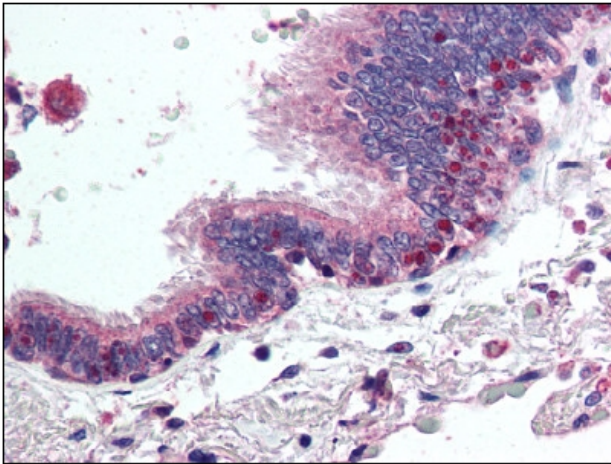
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**Background:**

Histone deacetylase (HDAC) and histone acetyltransferase (HAT) are enzymes that regulate transcription by selectively deacetylating or acetylating the epsilon-amino groups of lysines located near the amino termini of core histone proteins. Eight members of HDAC family have been identified in the past several years. These HDAC family members are divided into two classes, I and II. Class I of the HDAC family comprises four members, HDAC-1, 2, 3, and 8, each of which contains a deacetylase domain exhibiting from 45 to 93% identity in amino acid sequence. Class II of the HDAC family comprises HDAC-4, 5, 6, and 7, the molecular weights of which are all about twofold larger than those of the class I members, and the deacetylase domains are present within the C-terminal regions, except that HDAC-6 contains two copies of the domain, one within each of the N-terminal and C-terminal regions. Human HDAC-1, 2 and 3 were expressed in various tissues, but the others (HDAC-4, 5, 6, and 7) showed tissue-specific expression patterns. These results suggested that each member of the HDAC family exhibits a different, individual substrate specificity and function in vivo.

**Synonyms:**

Histone deacetylase 4, HD4, KIAA0288

**Product images:**

Lung, respiratory epithelium: Formalin-Fixed Paraffin-Embedded (FFPE)