

## Product datasheet for **AP02465PU-N**

### HDAC5 pSer498 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Suitable for use in Western blot (1:500-1:1000) and Immunohistochemistry on paraffin-embedded sections (1:50-1:100).
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human HDAC5 around the phosphorylation site of serine 498 (T-Q-Sp-S-P).
Specificity:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. HDAC5 (phospho-Ser498) antibody detects endogenous levels of HDAC5 only when phosphorylated at serine 498.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity chromatography using epitope-specific phosphopeptide.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	histone deacetylase 5
Database Link:	<a href="#">Entrez Gene 10014 Human Q9UQL6</a>



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**Background:**

HDAC5 is a member of the class II mammalian histone deacetylase family, which is structurally related to yeast HDA1. Human HDAC5 is composed of 1122 amino acid residues. The deacetylase domain of HDAC5 is located at the C-terminal half of the molecule. The N-terminal non-deacetylase domain does not show any significant homology with any published sequence. Both domains are required for HDAC5-mediated repression of gene transcription. HDAC5 interacts with a growing number of transcriptional factors including MEF2A as well as other HDAC proteins. The interacting complexes bind to specific regions of chromatin and regulate gene transcription in these regions.

**Synonyms:**

Histone deacetylase 5, HD5, KIAA0600, Antigen NY-CO-9

**Product images:**

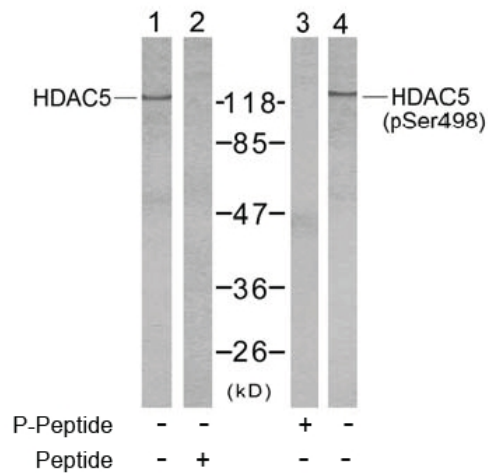
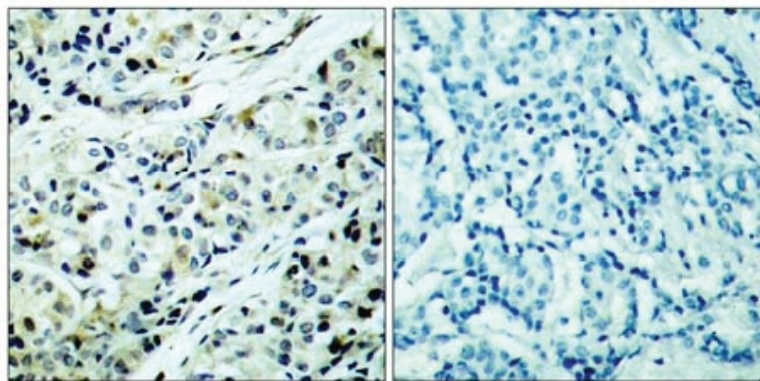


Figure 2. Western blot analysis of extract from NIH/3T3 cells using HDAC5 antibody (Lane 1 and 2) and HDAC5 (phospho-Ser498) antibody (Lane 3 and 4).



P-Peptide - +

Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using HDAC5 (phospho-Ser498) antibody.