

**HDAC3 (phospho Ser424) rabbit pAb****Cat#: orb770762 (Manual)**

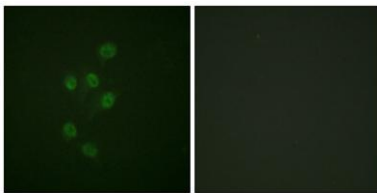
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<b>Product Name</b>	HDAC3 (phospho Ser424) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human HDAC3 around the phosphorylation site of Ser424. AA range:379-428
<b>Specificity</b>	Phospho-HDAC3 (S424) Polyclonal Antibody detects endogenous levels of HDAC3 protein only when phosphorylated at S424.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Histone deacetylase 3
<b>Gene Name</b>	HDAC3
<b>Cellular localization</b>	Nucleus . Cytoplasm . Cytoplasm, cytosol . Colocalizes with XBP1 and AKT1 in the cytoplasm (PubMed:25190803). Predominantly expressed in the nucleus in the presence of CCAR2 (PubMed:21030595). .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

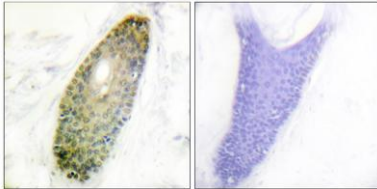
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	48kD
<b>Human Gene ID</b>	8841
<b>Human Swiss-Prot Number</b>	O15379
<b>Alternative Names</b>	HDAC3; Histone deacetylase 3; HD3; RPD3-2; SMAP45

**Background**

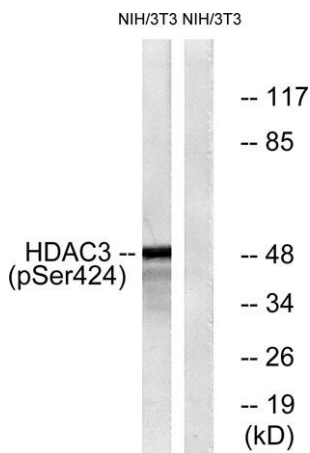
Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene. [provided by RefSeq, Jul 2008],



**Immunofluorescence analysis of A549 cells, using HDAC3 (Phospho-Ser424) Antibody. The picture on the right is blocked with the phospho peptide.**



Immunohistochemistry analysis of paraffin-embedded human skin, using HDAC3 (Phospho-Ser424) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells, using HDAC3 (Phospho-Ser424) Antibody. The lane on the right is blocked with the phospho peptide.