

**HDAC7 (phospho Ser155) rabbit pAb****Cat#: orb769413 (Manual)**

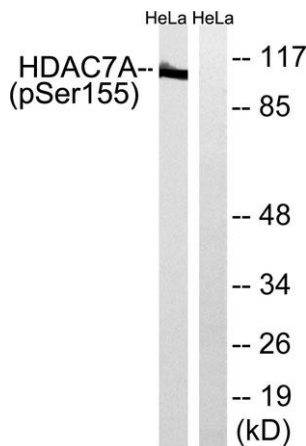
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	HDAC7 (phospho Ser155) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human HDAC7A around the phosphorylation site of Ser155. AA range:121-170
<b>Specificity</b>	Phospho-HDAC7 (S155) Polyclonal Antibody detects endogenous levels of HDAC7 protein only when phosphorylated at S155.
<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 7
<b>Gene Name</b>	HDAC7
<b>Cellular localization</b>	Nucleus. Cytoplasm. In the nucleus, it associates with distinct subnuclear dot-like structures. Shuttles between the nucleus and the cytoplasm. Treatment with EDN1 results in shuttling from the nucleus to the perinuclear region. The export to cytoplasm depends on the interaction with the 14-3-3 protein YWHAE and is due to its phosphorylation.
<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>	103kD
<b>Human Gene ID</b>	51564
<b>Human Swiss-Prot Number</b>	Q8WUI4
<b>Alternative Names</b>	HDAC7; HDAC7A; Histone deacetylase 7; HD7; Histone deacetylase 7A; HD7a

## 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 has sequence homology to members of the histone deacetylase family. This gene is orthologous to mouse HDAC7 gene whose protein promotes repression mediated via the transcriptional corepressor SMRT. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],



Western blot analysis of lysates from HeLa cells, using HDAC7A (Phospho-Ser155) Antibody. The lane on the right is blocked with the phospho peptide.