

# Polyclonal Anti-HDAC7 Picoband™ Antibody

Catalog Number: PB9629

## Description

<b>Gene Name</b>	histone deacetylase 7
<b>Recommended Protein Name</b>	Histone deacetylase 7
<b>Lot No.</b>	0961512Da302996
<b>Size</b>	100µg/vial
<b>Form</b>	lyophilized
<b>Ig type</b>	Rabbit IgG
<b>Specificity</b>	No cross reactivity with other proteins.
<b>Purification</b>	Immunogen affinity purified.
<b>Species</b>	<b>Reacts with:</b> human, rat
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence at the N-terminus of human HDAC7 (68-103aa QLLHKDKSKRSVASSVVKQKLAEVILKKQQAALER), different from the related mouse and rat sequences by one amino acid.
<b>Contents</b>	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .

## Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu, Rat	-

**Tested Species:** In-house tested species with positive results.

*Other applications have not been tested.*

*Optimal dilutions should be determined by end users.*

## Preparation and storage

**Reconstitution:** 0.2ml of distilled water will yield a concentration of 500µg/ml.

**Storage:** At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

## Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

## Background

Histone deacetylase 7 is an enzyme that in humans is encoded by the HDAC7 gene. It is mapped to 12q13.1. 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.

## Reference

1. "Entrez Gene: HDAC7A histone deacetylase 7A".
2. Kao HY, Downes M, Ordentlich P, Evans RM (Jan 2000). "Isolation of a novel histone deacetylase reveals that class I and class II deacetylases promote SMRT-mediated repression". *Genes & Development* 14 (1): 55–66.
3. Marks PA, Richon VM, Rifkind RA (Aug 2000). "Histone deacetylase inhibitors: inducers of differentiation or apoptosis of transformed cells". *Journal of the National Cancer Institute* 92 (15): 1210–6.