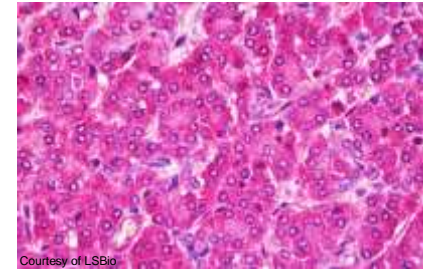
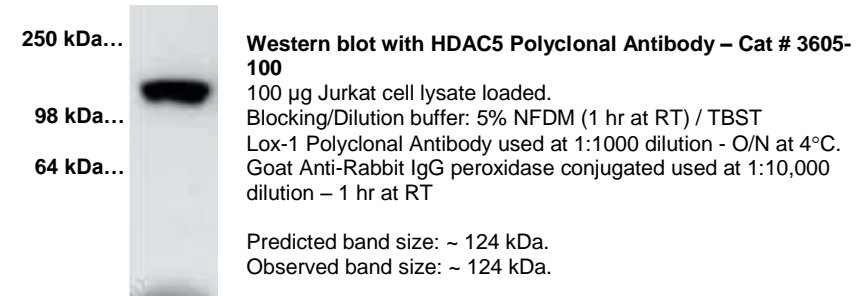


## Histone Deacetylase 5 (HDAC5) Antibody

<b>CATALOG #:</b>	3605-100
<b>AMOUNT:</b>	100 µg
<b>HOST:</b>	Rabbit
<b>IMMUNOGEN:</b>	Synthetic peptide surrounding amino acid 575 of human HDAC5 (Internal ID# BV-78)
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat (weakly)
<b>FORMULATION:</b>	100 µg (0.5 mg/ml) affinity purified rabbit anti-HDAC5 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.
<b>STORAGE CONDITIONS:</b>	Store at -20° C. For long-term storage, aliquot and freeze at -70° C. Avoid repeated freeze/thaw cycles.
<b>BACKGROUND:</b>	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.
<b>APPLICATION AND USAGE:</b>	The antibody can be used for Western blotting (0.5-4 µg/ml) and in Immunohistochemistry (5 µg/ml). Based on researcher's feedback, the antibody also works well in Immunoprecipitation (20 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3605BP-50) is available separately.
<b>SPECIFICITY:</b>	The antibody detects ~ 124 kDa HDAC5 with human and mouse samples, and in a lesser extent with rat samples. It does not cross-react with other HDAC proteins including HDAC1, 2, 3, 4, 6, 7, 8, 9,10, and 11.



IHC staining of human pancreatic tissue with HDAC5 Polyclonal antibody: Immunohistochemistry of formalin fixed, paraffin-embedded tissue after heat-induced antigen retrieval. 5 µg/ml of antibody used for staining. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen.

### RELATED PRODUCTS:

- HDAC5 Blocking Peptide (**Cat # 3605BP-50**)
- HDAC Family Antibody Set (**Cat # K333-11-30**)
- HDAC3 Antibody (**Cat # 3603-100**)
- HDAC4 Antibody (**Cat # 3604A-100**)
- HDAC4 Blocking Peptide (**Cat # 3604BP-50**)
- HDAC6 Antibody (**Cat # 3606-100**)