



# Histone deacetylase 9 Polyclonal Antibody

<b>Catalog No</b>	BYab-01784
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	HDAC9
<b>Protein Name</b>	Histone deacetylase 9
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human HDAC9. AA range:1017-1066
<b>Specificity</b>	Histone deacetylase 9 Polyclonal Antibody detects endogenous levels of Histone deacetylase 9 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</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>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Histone deacetylase 9; HD9; Histone deacetylase 7B; HD7; HD7b; Histone deacetylase-related protein; MEF2-interacting transcription repressor MITR; HDAC9; HDAC7; HDAC7B; HDRP; KIAA0744; MITR
<b>Observed Band</b>	110kD
<b>Cell Pathway</b>	Nucleus .
<b>Tissue Specificity</b>	Broadly expressed, with highest levels in brain, heart, muscle and testis. Isoform 3 is present in human bladder carcinoma cells (at protein level).
<b>Function</b>	
<b>Background</b>	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. Histone deacetylase 9 encoded by HDAC9 has sequence homology to members of the histone deacetylase family. HDAC9 is orthologous to the Xenopus and mouse MITR

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genes. The MITR protein lacks the histone deacetylase catalytic domain. It represses MEF2 activity through recruitment of multicomponent corepressor complexes that include CtBP and HDACs. This encoded protein may play a role in hematopoiesis. Multiple alternatively spliced transcripts have been described for this gene but the full-length nature of some of them has not been determined.

**matters needing attention**

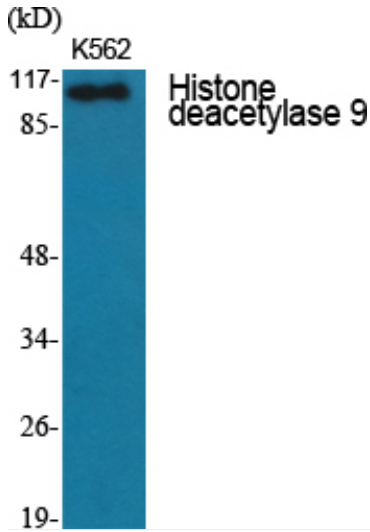
Avoid repeated freezing and thawing!

**Usage suggestions**

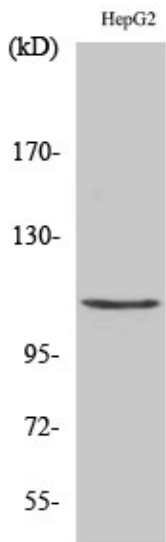
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



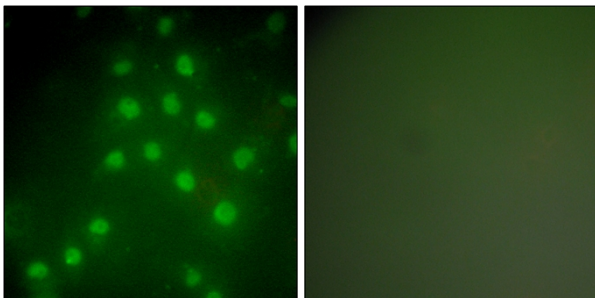
## Products Images



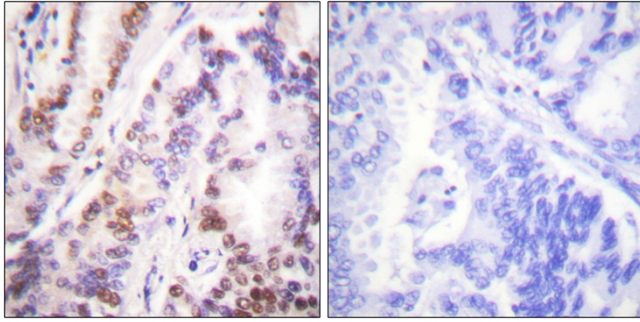
Western Blot analysis of various cells using Histone deacetylase 9 Polyclonal Antibody diluted at 1:1000



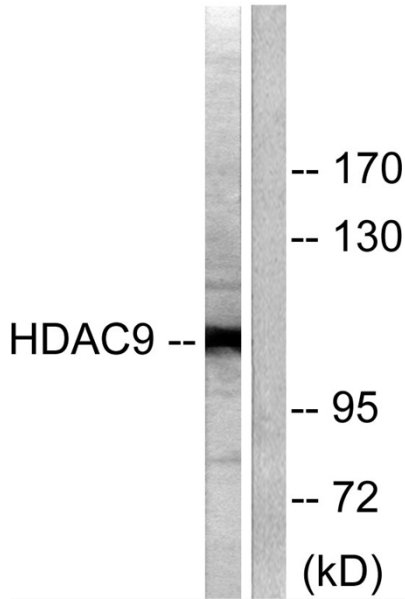
Western Blot analysis of HepG2 cells using Histone deacetylase 9 Polyclonal Antibody diluted at 1:1000



Immunofluorescence analysis of HepG2 cells, using HDAC9 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using HDAC9 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using HDAC9 Antibody. The lane on the right is blocked with the synthesized peptide.