

Anti-HDAC10 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Pig, Cow, Horse, Rabbit)
Molecular Weight:	Theoretical: 71 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (rat liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (HDAC10) Polyclonal Antibody, Unconjugated (TMAB-06926) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
	2. Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (HDAC10) Polyclonal Antibody, Unconjugated (TMAB-06926) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
	3. Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (HDAC10) Polyclonal Antibody, Unconjugated (TMAB-06926) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
	4. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (HDAC10) Polyclonal Antibody, Unconjugated (TMAB-06926) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
Application:	IHC-P, IHC-Fr, IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human HDAC10
Antigen Species: Human
Gene ID: 83933
Uniprot ID: Q96958

Research Background

The enzymes responsible for the reversible acetylation/ deacetylation process of histones are histone acetyltransferases (HATs) and histone deacetylases (HDACs), respectively. HATs act as transcriptional coactivators and HDACs are part of transcriptional corepressor complexes. Mammalian HDACs can be divided into three classes according to sequence homology. Class I consists of the yeast Rpd3 like proteins HDAC1, HDAC2, HDAC3, and HDAC8. Class II consists of the yeast Hda1 like proteins HDAC10, HDAC5, HDAC6, HDAC7, HDAC9, and HDAC10. Class III comprises the yeast Sir2 like proteins. Whereas class I HDACs are ubiquitously expressed, most class II HDACs are tissue specific. HDAC10 is similar to HDAC6, both containing a unique putative second catalytic domain not found in other HDACs. However, this domain is not functional in HDAC10. The deacetylase activity of class II HDACs is regulated by subcellular localization. HDAC10 was localized to both the nucleus and cytoplasm. HDAC10 can deacetylate histones, repress transcription, and interact with HDAC3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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