bs-2893R **[Primary Antibody]**

HDAC10 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 83933 **SWISS:** Q969S8

Target: HDAC10

Immunogen: KLH conjugated synthetic peptide derived from human HDAC10: 561-669/669.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

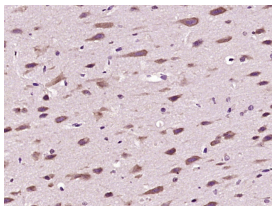
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Horse)

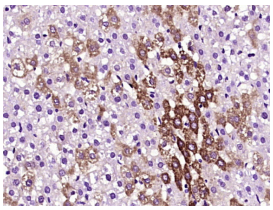
Predicted MW.: 71 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HDAC10) Polyclonal Antibody, Unconjugated (bs-2893R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HDAC10) Polyclonal Antibody, Unconjugated (bs-2893R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.