bs-6932R **[Primary Antibody]**

BHLHE41 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 79365 **SWISS:** Q9C0J9

Target: BHLHE41

Immunogen: KLH conjugated synthetic peptide derived from human SHARP1/DEC2: 21-120/482.

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: DEC1 is a 412 amino acid, basic helix-loop-helix (bHLH) containing protein that is involved in the control of proliferation and/or differentiation of several cell types including nerve cells, fibroblasts and chondrocytes. The bHLH region of DEC1 is structurally similar to the bHLH regions of the mammalian HES family, Drosophila hairy and Drosophila Enhancer of split m7. DEC1 is a novel direct target for cAMP in a wide range of cells, and is involved in the control of gene expression in cAMP-activated cells. DEC2, also known as SHARP1, is highly expressed in skeletal muscle and brain. The gene encoding human DEC2 maps to chromosome 12p11.23-p12.1. DEC1 and DEC2 play a role in regulating the mammalian molecular clock by suppressing the transcription of specific clock genes. Both DEC1 and DEC2 are detected in the suprachiasmimc nucleus in a circadian fashion. Brief light impulses induce the expression of DEC1 in a phase-dependent manner.

Applications: **WB** (1:500-2000)

Reactivity: Rat (predicted: Human, Mouse, Pig, Cow, Dog)

Predicted MW.: 50 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES

Sample: Brain (Rat) Lysate at 40 ug Primary: Anti-DEC2 (bs-6932R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution Predicted band size: 50 kD Observed band size: 50 kD

SELECTED CITATIONS

- **[IF=4.5]** Lixia Sun. et al. Delta-like noncanonical notch ligand 2 regulates the proliferation and differentiation of sheep myoblasts through the Wnt/β-catenin signaling pathway. J CELL PHYSIOL. 2024 Jul;:e31385 WB ;Sheep. 39030845
- **[IF=3.231]** Haiman Xu. et al. Circadian Clock Component Rev-erbα Regulates Diurnal Rhythm of UDP-Glucuronosyltransferase 1a9 and Drug Glucuronidation in Mice. Drug Metab Dispos. 2020 Aug;48(8):681-689 WB ;Mouse. 32527940