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Datasheet for ABIN7147843

## anti-BHLHE41 antibody (AA 185-285) (FITC)

### Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µg                                      |
| Target:              | BHLHE41                                     |
| Binding Specificity: | AA 185-285                                  |
| Reactivity:          | Human                                       |
| Host:                | Rabbit                                      |
| Clonality:           | Polyclonal                                  |
| Conjugate:           | This BHLHE41 antibody is conjugated to FITC |
| Application:         | Please inquire                              |

### Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | Recombinant Human Class E basic helix-loop-helix protein 41 protein (185-285AA) |
| Isotype:          | IgG   |
| Cross-Reactivity: | Human   |
| Purification:     | >95%, Protein G purified  |

### Target Details

|                   |   |
|-------------------|---|
| Target:           | BHLHE41   |
| Alternative Name: | BHLHE41 ( <a href="#">BHLHE41 Products</a> )  |
| Background:       | Background: Transcriptional repressor involved in the regulation of the circadian rhythm by negatively regulating the activity of the clock genes and clock-controlled genes. Acts as the |

## Target Details

negative limb of a novel autoregulatory feedback loop (DEC loop) which differs from the one formed by the PER and CRY transcriptional repressors (PER/CRY loop). Both these loops are interlocked as it represses the expression of PER1 and in turn is repressed by PER1/2 and CRY1/2. Represses the activity of the circadian transcriptional activator: CLOCK-ARNTL/BMAL1 heterodimer by competing for the binding to E-box elements (5'-CACGTG-3') found within the promoters of its target genes. Negatively regulates its own expression and the expression of DBP and BHLHE41/DEC2. Acts as a corepressor of RXR and the RXR-LXR heterodimers and represses the ligand-induced RXRA/B/G, NR1H3/LXRA, NR1H4 and VDR transactivation activity.

Aliases: Basic helix-loop-helix domain containing class B3 antibody, BHE41\_HUMAN antibody, bHLH protein DEC2 antibody, bHLHB3 antibody, bHLHe41 antibody, Class B basic helix loop helix protein 3 antibody, Class B basic helix-loop-helix protein 3 antibody, Class E basic helix-loop-helix protein 41 antibody, DEC2 antibody, Differentially expressed in chondrocytes protein 2 antibody, Enhancer of split and hairy related protein 1 antibody, Enhancer-of-split and hairy-related protein 1 antibody, hDEC2 antibody, Moderately similar to basic-helix loop helix protein M.musculus antibody, SHARP-1 antibody

UniProt: [Q9C0J9](#)

Pathways: [Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.