Anti-DEC2 antibody

Description	Rabbit polyclonal to DEC2.

Model	STJ92684
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human 40879
Immunogen Region	10-90 aa, N-terminal
Gene ID	79365
Gene Symbol	BHLHE41
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000
Specificity	DEC2 Polyclonal Antibody detects endogenous levels of 40879 protein.
Tissue Specificity	Highly expressed in skeletal muscle and brain, moderately expressed in pancreas and heart, weakly expressed in placenta, lung, liver and kidney.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Class E basic helix-loop-helix protein 41 bHLHe41 Class B basic helix-loop-helix protein 3 bHLHb3 Differentially expressed in chondrocytes protein 2 hDEC2 Enhancer-of-split and hairy-related protein 1 SHARP-1
Molecular Weight	50 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:16617OMIM:606200
Alternative Names	Class E basic helix-loop-helix protein 41 bHLHe41 Class B basic helix-loop-helix protein 3 bHLHb3 Differentially expressed in chondrocytes protein 2 hDEC2 Enhancer-of-split and hairy-related protein 1 SHARP-1
Function	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 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.
Cellular Localization	Nucleus