



# Mouse anti-Human BHLHE41 monoclonal antibody, clone 5I7 (CABT-B9853)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	BHLHB3 (NP_110389, 203 a.a. ~ 283 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	5I7
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IF, sELISA, ELISA
<b>Sequence Similarities</b>	CLERAGQKLEPLAYCVPVIQRTQPSAELAAENDTDTSGYGGAEARPDRKGKGAGASR VTIKQEPPGEDSPAPKRMKL*
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	In 1x PBS, pH 7.2
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## BACKGROUND

<b>Introduction</b>	This gene encodes a basic helix-loop-helix protein expressed in various tissues. The encoded protein can interact with ARNTL or compete for E-box binding sites in the promoter of PER1
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and repress CLOCK/ARNTLs transactivation of PER1. This gene is believed to be involved in the control of circadian rhythm and cell differentiation. Defects in this gene are associated with the short sleep phenotype. [provided by RefSeq, Feb 2014]

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<b>Keywords</b>	BHLHE41; basic helix-loop-helix family, member e41; DEC2; hDEC2; BHLHB3; SHARP1; class E basic helix-loop-helix protein 41; enhancer-of-split and hairy-related protein 1; differentially expressed in chondrocytes protein 2; basic helix-loop-helix domain containing, class B, 3;
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## GENE INFORMATION

<b>Entrez Gene ID</b>	<a href="#">79365</a>
<b>UniProt ID</b>	<a href="#">Q9C0J9</a>
<b>Pathway</b>	Circadian Clock, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem; Circadian rhythm - mammal, conserved biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem
<b>Function</b>	DNA binding; sequence-specific DNA binding transcription factor activity

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