



# Mouse anti-Human BHLHE40 polyclonal antibody (DPAB-DC3582)

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

## PRODUCT INFORMATION

<b>Antigen Description</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 and repress CLOCK/ARNTLs transactivation of PER1. This gene is believed to be involved in the control of circadian rhythm and cell differentiation.
<b>Immunogen</b>	BHLHB2 (NP_003661, 130 a.a. ~ 229 a.a) partial recombinant protein with GST tag. The sequence is LSGRNVETGQEMFCSGFQTCAREVLQYLAKHENTRDLKSSQLVTHLHRVVSELLQGGTSR KPSDPAPKVMDFKEKPSSPAKGSEGPKNCPVIQRTFAH
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

**Gene Name** [BHLHE40 basic helix-loop-helix family, member e40 \[ Homo sapiens \(human\) \]](#)

<b>Official Symbol</b>	BHLHE40
<b>Synonyms</b>	BHLHE40; basic helix-loop-helix family, member e40; DEC1; HLHB2; BHLHB2; STRA13; Stra14; SHARP-2; class E basic helix-loop-helix protein 40; class B basic helix-loop-helix protein 2; differentially expressed in chondrocytes 1; stimulated by retinoic acid gene 13 protein; enhancer-of-split and hairy-related protein 2; differentially expressed in chondrocytes protein 1; differentiated embryo chondrocyte expressed gene 1; basic helix-loop-helix domain containing, class B, 2;
<b>Entrez Gene ID</b>	<a href="#">8553</a>
<b>Protein Refseq</b>	<a href="#">NP_003661</a>
<b>UniProt ID</b>	<a href="#">O14503</a>
<b>Chromosome Location</b>	3p26
<b>Pathway</b>	BMAL1:CLOCK,NPAS2 activates circadian gene expression; Circadian rhythm; Circadian rhythm pathway; HIF-2-alpha transcription factor network
<b>Function</b>	E-box binding; MRF binding; RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of transcription