



# Anti-BHLHE40 monoclonal antibody, clone 6C2 (DCABH-10736)

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. Expression in the chondrocytes is responsive to the addition of Bt2cAMP. The encoded protein is believed to be involved in the control of cell differentiation.
<b>Immunogen</b>	BHLHB2 (NP_003661, 130 a.a. ~ 229 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, Mouse
<b>Clone</b>	6C2
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot (Cell lysate); Western Blot (Recombinant protein); Sandwich ELISA (Recombinant protein); ELISA
<b>Sequence Similarities</b>	LSGRNVETGQEMFCSGFQTCAREVLQYLAKHENTRDLKSSQLVTHLHRVVSELLQGGTSR KPSDPAPKVMDFKEKPSSPAKGSEGPKNCPVIQRTFAH
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BHLHE40 basic helix-loop-helix family, member e40 [ Homo sapiens ]</a>
<b>Official Symbol</b>	BHLHE40
<b>Synonyms</b>	BHLHE40; basic helix-loop-helix family, member e40; basic helix loop helix domain containing, class B, 2 , BHLHB2, STRA13; class E basic helix-loop-helix protein 40; differentiated embryo chondrocyte expressed gene 1; bHLHe40; DEC1; differentially expressed in chondrocytes 1; class B basic helix-loop-helix protein 2; stimulated by retinoic acid gene 13 protein; enhancer-of-split and hairy-related protein 2; differentially expressed in chondrocytes protein 1; basic helix-loop-helix domain containing, class B, 2; HLHB2; BHLHB2; STRA13; Stra14; SHARP-2; FLJ99214;
<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 Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem; Circadian rhythm - mammal, conserved biosystem; Circadian rhythm pathway, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem;
<b>Function</b>	DNA binding; 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 transcriptio
<b>References</b>	A new role for SREBP-1 transcription factors in the regulation of muscle mass and muscle cell differentiation.Lecomte V, Meugnier E, Euthine V, Durand C, Freyssenet D, Nemoz G, Rome S, Vidal H, Lefai E.Mol Cell Biol. 2009 Dec 22. [Epub ahead of print]