

BHLH3 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5748a**Specification**

BHLH3 Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O9C0J9](#)
Other Accession [NP_110389](#)

BHLH3 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 79365

Other 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, BHLHE41, BHLHB3, DEC2, SHARP1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BHLH3 Antibody (N-term) Blocking peptide - Protein Information

Name BHLHE41 ([HGNC:16617](#))

Function

Transcriptional repressor involved in the regulation of the circadian rhythm by negatively regulating the activity of the clock genes and clock-controlled genes (PubMed: 11278948, PubMed: 14672706, PubMed: 15193144, PubMed: 15560782, PubMed: 18411297, PubMed: 19786558, PubMed: 25083013). 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-BMAL1 heterodimer by competing for the binding to E-box elements (5'-CACGTG-3') found within the promoters of its target genes (PubMed: 25083013)

target="_blank">25083013). 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. Inhibits HNF1A-mediated transactivation of CYP1A2, CYP2E1 AND CYP3A11 (By similarity).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00380, ECO:0000255|PROSITE-ProRule:PRU00981}

Tissue Location

Highly expressed in skeletal muscle and brain, moderately expressed in pancreas and heart, weakly expressed in placenta, lung, liver and kidney

BHLH3 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

BHLH3 Antibody (N-term) Blocking peptide - Images**BHLH3 Antibody (N-term) Blocking peptide - Background**

BHLHE41 may be a transcriptional repressor that represses both basal and activated transcription.

BHLH3 Antibody (N-term) Blocking peptide - References

Honma, S., et al. Nature 419(6909):841-844(2002) Garriga-Canut, M., et al. J. Biol. Chem. 276(18):14821-14828(2001) Fujimoto, K., et al. Biochem. Biophys. Res. Commun. 280(1):164-171(2001) Grottke, C., et al. Int. J. Cancer 88(4):535-546(2000)