

**ID1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11717c****Specification**

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**ID1 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [P41134](#)  
Other Accession [NP\\_851998.1](#), [NP\\_002156.2](#)

**ID1 Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 3397

**Other Names**

DNA-binding protein inhibitor ID-1, Class B basic helix-loop-helix protein 24, bHLHb24, Inhibitor of DNA binding 1, Inhibitor of differentiation 1, ID1, BHLHB24, ID

**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.

**ID1 Antibody (Center) Blocking peptide - Protein Information**

**Name** ID1

**Synonyms** BHLHB24, ID

**Function**

Transcriptional regulator (lacking a basic DNA binding domain) which negatively regulates the basic helix-loop-helix (bHLH) transcription factors by forming heterodimers and inhibiting their DNA binding and transcriptional activity. Implicated in regulating a variety of cellular processes, including cellular growth, senescence, differentiation, apoptosis, angiogenesis, and neoplastic transformation. Inhibits skeletal muscle and cardiac myocyte differentiation. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-BMAL1 heterodimer (By similarity).

**Cellular Location**

Cytoplasm. Nucleus.

**ID1 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **ID1 Antibody (Center) Blocking peptide - Images**

#### **ID1 Antibody (Center) Blocking peptide - Background**

The protein encoded by this gene is a helix-loop-helix(HLH) protein that can form heterodimers with members of the basicHLH family of transcription factors. The encoded protein has no DNA binding activity and therefore can inhibit the DNA binding and transcriptional activation ability of basic HLH proteins with which it interacts. This protein may play a role in cell growth, senescence, and differentiation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

#### **ID1 Antibody (Center) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care (2010) In press :Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Robertson, N.G., et al. Genomics 23(1):42-50(1994)