

ID4 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9977a**Specification**

ID4 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P47928](#)

ID4 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 3400

Other Names

DNA-binding protein inhibitor ID-4, Class B basic helix-loop-helix protein 27, bHLHb27, Inhibitor of DNA binding 4, Inhibitor of differentiation 4, ID4, BHLHB27

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.

ID4 Antibody (N-term) Blocking Peptide - Protein Information

Name ID4

Synonyms BHLHB27

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 (By similarity).

Cellular Location

Nucleus.

ID4 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ID4 Antibody (N-term) Blocking Peptide - Images

ID4 Antibody (N-term) Blocking Peptide - Background

ID4 is transcription factors containing a basic helix-loop-helix (bHLH) motif regulate expression of tissue-specific genes in a number of mammalian and insect systems. DNA-binding activity of the bHLH proteins is dependent on formation of homo- and/or heterodimers. Dominant-negative HLH proteins encoded by Id-related genes, such as ID4, also contain the HLH-dimerization domain but lack the DNA-binding basic domain. Consequently, Id proteins inhibit binding to DNA and transcriptional transactivation by heterodimerization with bHLH proteins

ID4 Antibody (N-term) Blocking Peptide - References

Fontemaggi, G., et al. Nat. Struct. Mol. Biol. 16(10):1086-1093(2009)Uhm, K.O., et al. J. Korean Med. Sci. 24(3):493-497(2009)