

ID3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18321b**Specification**

ID3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q02535](#)**ID3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 3399**Other Names**

DNA-binding protein inhibitor ID-3, Class B basic helix-loop-helix protein 25, bHLHb25, Helix-loop-helix protein HEIR-1, ID-like protein inhibitor HLH 1R21, Inhibitor of DNA binding 3, Inhibitor of differentiation 3, ID3, 1R21, BHLHB25, HEIR1

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.

ID3 Antibody (C-term) Blocking Peptide - Protein Information**Name** ID3**Synonyms** 1R21, BHLHB25, HEIR1**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. Involved in myogenesis by inhibiting skeletal muscle and cardiac myocyte differentiation and promoting muscle precursor cells proliferation. Inhibits the binding of E2A-containing protein complexes to muscle creatine kinase E-box enhancer. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-BMAL1 heterodimer.

Cellular Location

Nucleus.

Tissue Location

Expressed abundantly in lung, kidney and adrenal gland, but not in adult brain

ID3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ID3 Antibody (C-term) Blocking Peptide - Images

ID3 Antibody (C-term) Blocking Peptide - Background

Members of the ID family of helix-loop-helix (HLH) proteins lack a basic DNA-binding domain and inhibit transcription through formation of nonfunctional dimers that are incapable of binding to DNA.

ID3 Antibody (C-term) Blocking Peptide - References

Shuno, Y., et al. J. Surg. Res. 161(1):76-82(2010) Doran, A.C., et al. Circ. Res. 106(7):1303-1311(2010) McGeachie, M., et al. Circulation 120(24):2448-2454(2009) Higgins, S., et al. Endocrinology 150(9):4044-4055(2009) Trabosh, V.A., et al. Exp. Dermatol. 18(4):387-395(2009)