

Bmp10 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1710a**Specification**

Bmp10 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O95393](#)**Bmp10 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 27302**Other Names**

Bone morphogenetic protein 10, BMP-10, BMP10

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1710a](/product/products/AP1710a) was selected from the N-term region of human Bmp10. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

Bmp10 Antibody (N-term) Blocking Peptide - Protein Information**Name** BMP10**Function**

Required for maintaining the proliferative activity of embryonic cardiomyocytes by preventing premature activation of the negative cell cycle regulator CDKN1C/p57KIP and maintaining the required expression levels of cardiogenic factors such as MEF2C and NKX2-5. Acts as a ligand for ACVRL1/ALK1, BMPR1A/ALK3 and BMPR1B/ALK6, leading to activation of SMAD1, SMAD5 and SMAD8 transcription factors. Inhibits endothelial cell migration and growth. May reduce cell migration and cell matrix adhesion in breast cancer cell lines.

Cellular Location

Secreted.

Tissue Location

Detected in mammary epithelia (at protein level).

Bmp10 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Bmp10 Antibody (N-term) Blocking Peptide - Images

Bmp10 Antibody (N-term) Blocking Peptide - Background

BMP10 is a member of the TGF-beta family of growth factors. Data suggest that the similar protein in mouse plays an important role in trabeculation of the embryonic heart. In human, this protein may signal through receptor serine/threonine kinases.

Bmp10 Antibody (N-term) Blocking Peptide - References

Neuhaus, H., et al., Mech. Dev. 80(2):181-184 (1999).