

**Bmp10 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1710a****Specification**

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**Bmp10 Antibody (N-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">O95393</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	48047
Antigen Region	7-35

**Bmp10 Antibody (N-term) - Additional Information****Gene ID** 27302**Other Names**

Bone morphogenetic protein 10, BMP-10, BMP10

**Target/Specificity**

This Bmp10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-35 amino acids from the N-terminal region of human Bmp10.

**Dilution**

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Bmp10 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Bmp10 Antibody (N-term) - 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.

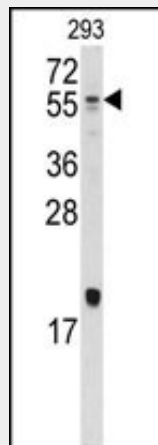
**Tissue Location**

Detected in mammary epithelia (at protein level).

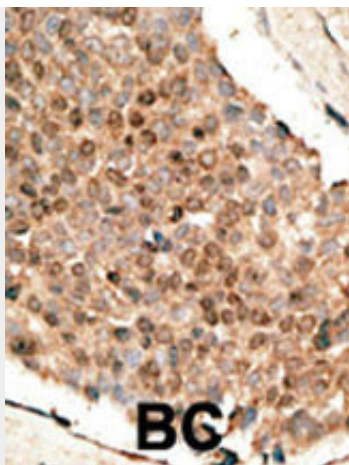
**Bmp10 Antibody (N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Bmp10 Antibody (N-term) - Images**

Western blot analysis of anti-Bmp10 Antibody (N-term) (Cat.#AP1710a) in 293 cell line lysates (35ug/lane). Bmp10 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **Bmp10 Antibody (N-term) - 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) - References**

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