

**BMP-11 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV11008****Specification**

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**BMP-11 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">O95390</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 45091                  |

**BMP-11 Antibody - Additional Information****Gene ID** 10220**Application & Usage****Other Names**

GDF11; BMP11

**Recombinant human BMP-11****Target/Specificity**

BMP-11

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-human BMP-11 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5mM EDTA and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

BMP-11 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**BMP-11 Antibody - Protein Information**

**Name** GDF11

**Synonyms** BMP11 {ECO:0000303|PubMed:10075854}

**Function**

Secreted signal that acts globally to regulate anterior/posterior axial patterning during development. May play critical roles in patterning both mesodermal and neural tissues (By similarity). It is required for proper vertebral patterning and orofacial development (PubMed:<a href="http://www.uniprot.org/citations/31215115" target="\_blank">31215115</a>). Signals through activin receptors type-2, ACVR2A and ACVR2B, and activin receptors type-1, ACVR1B, ACVR1C and TGFBR1 leading to the phosphorylation of SMAD2 and SMAD3 (PubMed:<a href="http://www.uniprot.org/citations/28257634" target="\_blank">28257634</a>).

**Cellular Location**

Secreted.

**Tissue Location**

In the embryo, strong expression is seen in the palatal epithelia, including the medial edge epithelial and midline epithelial seam of the palatal shelves. Less pronounced expression is also seen throughout the palatal shelf and tongue mesenchyme

**BMP-11 Antibody - 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](#)

**BMP-11 Antibody - Images**

**BMP-11 Antibody - Background**

BMPs (bone morphogenetic proteins) belong to the TGF- $\beta$  superfamily of structurally related signaling proteins. As implied by their name, BMPs promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. Recombinant human BMP-11 is N-terminus His-tagged protein with a molecular weight of 32.6 kDa (for homodimeric) and 16.2 (for monomeric) consisting of 136 amino acid polypeptide chains.