**BMP2**

**Polyclonal ANTIBODY**

**Catalog Number:** 18933-1-AP

**Basic Information**

- **Catalog Number:** 18933-1-AP
- **Size:** 24 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG13501
- **GenBank Accession Number:** BDO69214
- **GeneID (NCBI):** 650
- **Full Name:** Bone morphogenetic protein 2
- **Calculated MW:** 396aa, 44 kDa
- **Observed MW:**

**Recommended Dilutions:**

**Applications**

- **Tested Applications:** ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human
- **Cited Species:** human, mouse, rat

**Note:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Background Information**

Bone morphogenetic protein-2 (BMP-2) is a member of the transforming growth factor-beta (TGFβ) superfamily. BMP2 is synthesized as a 60 kDa precursor that is processed in the secretory pathway to a small 18 kDa monomer; 2 monomers then associate to form the active 30 kDa homodimer, which binds to its receptor. There is also a 40-45 kDa form of BMP2, as an amino-terminal propeptide. BMP2 can induce bone formation and regeneration during early embryonic development. It is involved in the hedgehog pathway, TGF beta signaling pathway, and cytokine-cytokine receptor interaction.

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Hong Liu</td>
<td>26944696</td>
<td>J Cell Mol Med</td>
<td>WB</td>
</tr>
<tr>
<td>Yan Wei</td>
<td>26312381</td>
<td>Biol Trace Elem Res</td>
<td>WB</td>
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<tr>
<td>Etsuko Yokota</td>
<td>25625545</td>
<td>Oncotarget</td>
<td>WB</td>
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**Storage**

- **Store at:** -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**