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

Recommended Dilutions:
- WB: 1:500-1:1000
- IHC: 1:50-1:500
- IF: 1:50-1:500

GenBank Accession Number: BC059214
GeneID (NCBI): 650

Full Name: Bone morphogenetic protein 2

Calculated MW: 396aa, 44 kDa
Observed MW: 45 kDa, 30 kDa, 18 kDa

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

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>
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<tr>
<th>Author</th>
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<tbody>
<tr>
<td>Hong Liu</td>
<td>26944906</td>
<td>J Cell Mol Med</td>
<td>WB</td>
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<tr>
<td>Yan Wei</td>
<td>25312391</td>
<td>Biol Trace Elem Res</td>
<td>WB</td>
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<tr>
<td>Etsuko Yokota</td>
<td>26362454</td>
<td>Oncotarget</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.
HT-1080 cells were subjected to SDS PAGE followed by western blot with 18933-1-AP (BMP2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

Immunohistochemical of paraffin-embedded human lung using 18933-1-AP (BMP2 antibody) at dilution of 1:150 (under 10x lens).

Immunohistochemical of paraffin-embedded human lung using 18933-1-AP (BMP2 antibody) at dilution of 1:150 (under 40x lens).

Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 18933-1-AP (BMP2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).