Overview

Product name: Anti-BMP2 antibody [65529.111]
Description: Mouse monoclonal [65529.111] to BMP2
Host species: Mouse
Tested applications: Suitable for: WB, ELISA, IHC-P, ICC/IF, Indirect ELISA
Species reactivity: Reacts with: Mouse, Rat, Rabbit, Human
Immunogen: Recombinant full length protein expressed in E. coli (Human).
General notes: This product is supplied as 100µg/vial. The concentration range may vary from 0.5mg/ml to 1mg/ml.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Phosphate buffered saline
Purity: Protein G purified
Clonality: Monoclonal
Clone number: 65529.111
Isotype: IgG2b

Applications

Our Abpromise guarantee covers the use of ab6285 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 17-18 kDa.</td>
</tr>
<tr>
<td>ELISA</td>
<td>⭐⭐⭐⭐</td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>
**Function**
Induces cartilage and bone formation.

**Tissue specificity**
Particularly abundant in lung, spleen and colon and in low but significant levels in heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, ovary and small intestine.

**Sequence similarities**
Belongs to the TGF-beta family.

**Cellular localization**
Secreted.

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**Application**

<table>
<thead>
<tr>
<th><strong>Abreviews</strong></th>
<th><strong>Notes</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>Use at an assay dependent concentration. Do not perform antigen retrieval. PubMed: 17959825</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>Use a concentration of 1 µg/ml.</td>
</tr>
<tr>
<td>Indirect ELISA</td>
<td>Use a concentration of 0.5 - 1 µg/ml. To detect a limit of ~3 ng/well recombinant human BMP-2 at 50 and 100 ng/lane under non-reducing and reducing conditions, respectively.</td>
</tr>
</tbody>
</table>

**Target**

**Function**
Induces cartilage and bone formation.

**Tissue specificity**
Particularly abundant in lung, spleen and colon and in low but significant levels in heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, ovary and small intestine.

**Sequence similarities**
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**Images**

ICC/IF image of ab6285 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab6285, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rabbit periosteum labeling BMP2 with ab6285 at 1/100 dilution. The tissue was fixed with paraformaldehyde, followed by blocking in 5% serum for 20 minutes. The tissue was incubated with ab6285 for 12 hours at 4°C in antibody dilution solution. An undiluted polyclonal goat-anti mouse HRP conjugate secondary antibody was used.

ab66285 staining BMP2 in Human small intestine tissue sections by IHC-P (formaldehyde-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1.5% serum for 10 minutes. Antigen retrieval was by heat mediation in citrate (pH6.0). Samples were incubated with primary antibody (1/100 in diluent buffer) for 1 hour. An undiluted HRP-conjugated Goat polyclonal to mouse IgG was used as secondary antibody.

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