Product datasheet

Anti-BMP2 antibody [65529.111] ab6285

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.
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>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use at an assay dependent concentration. Do not perform antigen retrieval. PubMed: 17959825</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.

### Application | Abreviews | Notes
--- | --- | ---
ICC/IF | | Use a concentration of 1 µg/ml.
Indirect ELISA | | 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.

**Target**

<table>
<thead>
<tr>
<th>Function</th>
<th>Induces cartilage and bone formation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tissue specificity</td>
<td>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.</td>
</tr>
<tr>
<td>Sequence similarities</td>
<td>Belongs to the TGF-beta family.</td>
</tr>
<tr>
<td>Cellular localization</td>
<td>Secreted.</td>
</tr>
</tbody>
</table>

**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.

This image courtesy of an anonymous Abreview.

**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.

This image courtesy of an anonymous Abreview.

---

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"  

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.

**Terms and conditions**
• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors