**Product datasheet**

**Anti-BMP9 antibody ab71809**

1 References    2 Images

**Overview**

**Product name**  
Anti-BMP9 antibody

**Description**  
Rabbit polyclonal to BMP9

**Host species**  
Rabbit

**Tested applications**  
**Suitable for:** WB, IHC-P, ELISA

**Species reactivity**  
**Reacts with:** Mouse, Human

**Immunogen**  
Synthetic peptide from the N-terminal region of human BMP9 conjugated to KLH

**Positive control**  
Mouse liver tissue lysate and human hepatocellular carcinoma tissue.

**Properties**

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Storage buffer**  
Preservative: 0.09% Sodium azide  
Constituent: PBS

**Purity**  
Protein G purified

**Clonality**  
Polyclonal

**Isotype**  
IgG

**Applications**

Our [Abpromise guarantee](#) covers the use of ab71809 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>
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<tbody>
<tr>
<td>WB</td>
<td>1/100 - 1/500. Detects a band of approximately 50 kDa (predicted molecular weight: 47 kDa).</td>
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<tr>
<td>IHC-P</td>
<td>1/50 - 1/100.</td>
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<td>ELISA</td>
<td>1/1000.</td>
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</table>
BMP9 is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. They are regulators of cell growth and differentiation. BMP9 has a role in the maturation of BFCN (basal forebrain cholinergic neurons) also inducing and maintaining the ability of these cells to respond to acetylcholine; BFCN are important for the processes of learning, memory and attention. BMP9 is a potent inducer of hepcidin (a cationic peptide that has antimicrobial properties) in hepatocytes and can regulate iron metabolism. The physiological receptor of BMP9 is thought to be activin receptor-like kinase 1, ALK1 (also called ACVRL1), an endothelial-specific type I receptor of the TGF-beta receptor family. BMP9 is one of the most potent BMPs to induce orthotopic bone formation in vivo. BMP3, a blocker of most BMPs seems not to affect BMP9.

**Cellular localization**
Secreted

**Images**

**Western blot - Anti-BMP9 antibody (ab71809)**

- Anti-BMP9 antibody (ab71809) at 1/100 dilution + mouse liver tissue lysate at 12.5 µg
- **Predicted band size:** 47 kDa
- **Observed band size:** 50 kDa
- why is the actual band size different from the predicted?

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BMP9 antibody (ab71809)**

- ab71809 at 1/50 dilution, staining BMP9 in human hepatocarcinoma by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue, followed by peroxidase-conjugated secondary antibody and DAB staining.

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