

Product datasheet

Anti-BMP9 antibody [EPR20009] ab207318

Recombinant RabMAb

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Overview

Product name	Anti-BMP9 antibody [EPR20009]
Description	Rabbit monoclonal [EPR20009] to BMP9
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: GST-tagged Human BMP9 recombinant protein (aa338-429); Human liver lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20009
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab207318 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 47 kDa (predicted molecular weight: 47 kDa).

Target

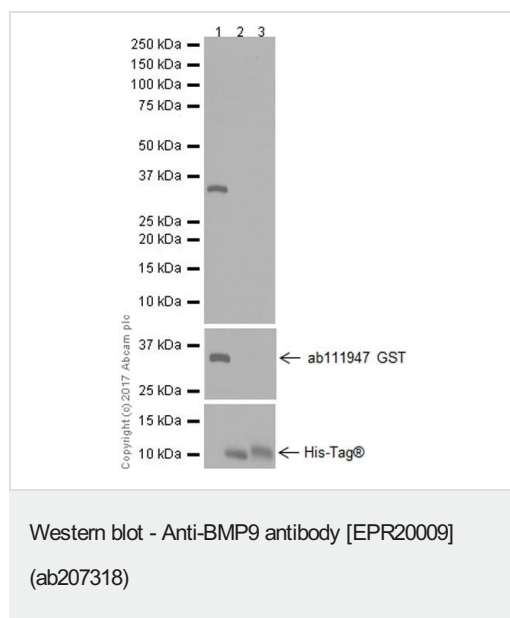
Relevance

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



All lanes : Anti-BMP9 antibody [EPR20009] (ab207318) at 1/10000 dilution

Lane 1 : GST-tagged Human BMP9 recombinant protein (aa338-429)

Lane 2 : His-tagged Human BMP10 recombinant protein (aa334-424)

Lane 3 : His-tagged Human BMP13 recombinant protein (aa365-455)

Lysates/proteins at 0.02 µg per lane.

Secondary

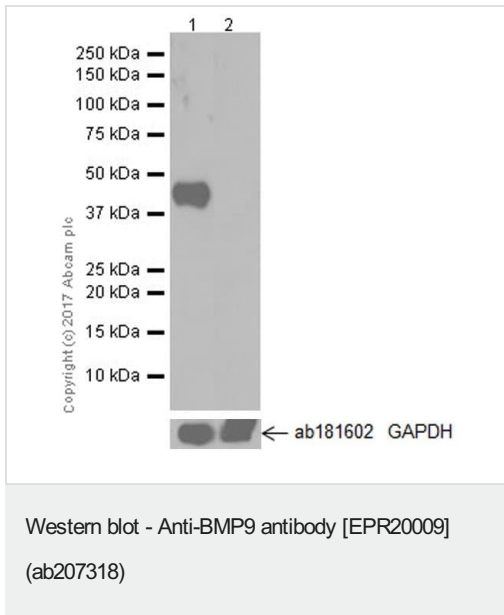
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 47 kDa

Observed band size: 35 kDa

Exposure time: 4 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-BMP9 antibody [EPR20009] (ab207318) at 1/1000 dilution

Lane 1 : Human liver lysate

Lane 2 : Human brain lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 47 kDa

Observed band size: 47 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

BMP9 is mostly expressed in liver and has very low expression levels in brain and other tissues. PMID 21710321; PMID 23812757.

Why choose a recombinant antibody?

<p>Research with confidence Consistent and reproducible results</p>	<p>Long-term and scalable supply Recombinant technology</p>
<p>Success from the first experiment Confirmed specificity</p>	<p>Ethical standards compliant Animal-free production</p>

Anti-BMP9 antibody [EPR20009] (ab207318)

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

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