Overview

Product name: Anti-BMP7 antibody [EPR5897]
Description: Rabbit monoclonal [EPR5897] to BMP7
Host species: Rabbit
Tested applications:
Suitable for: WB, IP
Unsuitable for: ICC/IF or IHC-P
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide within Human BMP7 aa 300-400. The exact sequence is proprietary.
Positive control: WB: Rat and mouse kidney lysate, Fetal kidney, Human prostate and HT-1376 lysates; recombinant Osteogenic Growth Peptide IP: MCF7 whole cell lysate
General notes: Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
 Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity: Protein A purified
Clonality: Monoclonal
Clone number: EPR5897
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab129156 in the following tested applications.

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

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<th>Application</th>
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<td>IP</td>
<td>1/150. For unpurified use at 1/10 - 1/100.</td>
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Application notes: Is unsuitable for ICC/IF or IHC-P.

Target

Function: Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation and bone homeostasis.

Tissue specificity: Expressed in the kidney and bladder. Lower levels seen in the brain.

Sequence similarities: Belongs to the TGF-beta family.

Developmental stage: Expressed in the developing eye, brain and ear during embryogenesis.

Post-translational modifications: Several N-termini starting at positions 293, 300, 315 and 316 have been identified by direct sequencing resulting in secretion of different mature forms (PubMed:17977014).

Cellular localization: Secreted.

Images

All lanes: Anti-BMP7 antibody [EPR5897] (ab129156) at 1/5000 dilution (purified)

Lane 1: Rat kidney lysate
Lane 2: Mouse kidney lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

Predicted band size: 49 kDa
Observed band size: 49 kDa
Blocking/Diluting buffer 5% NFDM/TBST

Anti-BMP7 antibody [EPR5897] (ab129156) at 1/1000 dilution (purified) + MCF7 (Human breast adenocarcinoma cell line) whole cell lysate at 1/15 dilution

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 49 kDa  
**Observed band size:** 49 kDa

Blocking/Diluting buffer 5% NFDM/TBST

Purified ab129156 at 1/150 immunoprecipitating BMP7 in MCF7 (Human breast adenocarcinoma cell line) whole cell lysate observed at 49 KDa (lanes 1 and 2).

**Lane 1 (input):** MCF7 whole cell lysate 10μg  
**Lane 2 (+):** ab129156 + MCF7 whole cell lysate.  
**Lane 3 (-):** Rabbit monoclonal IgG (ab172730) instead of ab129156 in MCF7 whole cell lysate

For western blotting, ab129156 at 1/150 dilution and VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/1000 dilution.

Blocking and Diluting buffer and concentration: 5% NFDM/TBST.

All lanes : Anti-BMP7 antibody [EPR5897] (ab129156) at 1/1000 dilution (unpurified)

**Lane 1 :** Fetal kidney lysate  
**Lane 2 :** Human prostate lysate  
**Lane 3 :** HT-1376 lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution
**Predicted band size:** 49 kDa

Anti-BMP7 antibody [EPR5897] (ab129156) at 1/1000 dilution (unpurified) + recombinant Human BMP7 (amino acids 316 - 431) at 0.01 µg

**Secondary**

Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 49 kDa

The recombinant peptide should give a band of approximately 13.7 kDa.

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

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