

Product datasheet

Anti-BMP7 antibody [EPR5897] ab129156

Recombinant RabMAb

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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, Recombinant fragment |
| 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 | <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> <p>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.</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 | 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

The Abpromise guarantee 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.

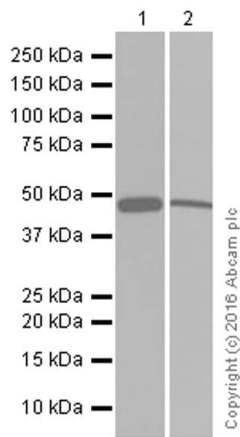
| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | 1/1000 - 1/10000. Predicted molecular weight: 49 kDa. |
| IP | | 1/150. For unpurified use at 1/10 - 1/100. |

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



Western blot - Anti-BMP7 antibody [EPR5897]
(ab129156)

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.

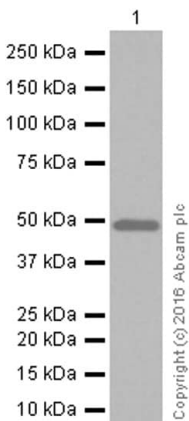
Secondary

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



Western blot - Anti-BMP7 antibody [EPR5897]
(ab129156)

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

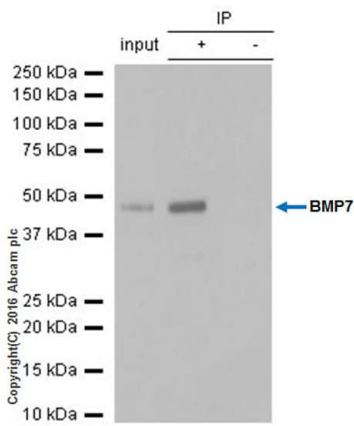
Secondary

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



Immunoprecipitation - Anti-BMP7 antibody [EPR5897] (ab129156)

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).

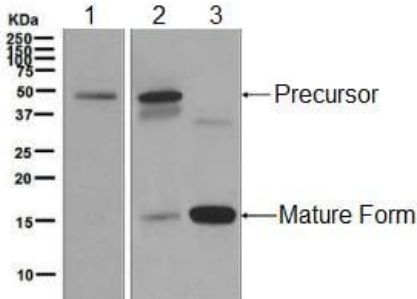
Lane 1 (input): MCF7 whole cell lysate 10µg

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.



Western blot - Anti-BMP7 antibody [EPR5897] (ab129156)

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

Lane 1 : Fetal kidney lysate

Lane 2 : Human prostate lysate

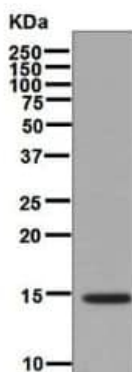
Lane 3 : HT-1376 lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 49 kDa



Western blot - Anti-BMP7 antibody [EPR5897] (ab129156)

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.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-BMP7 antibody [EPR5897] (ab129156)

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

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