

Product datasheet

Anti-BMP7 antibody [EPR23143-31] ab269586

Recombinant RabMAb

[1 References](#) [3 Images](#)

Overview

Product name	Anti-BMP7 antibody [EPR23143-31]
Description	Rabbit monoclonal [EPR23143-31] to BMP7
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: MCF7 whole cell lysate. 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>

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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23143-31
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab269586 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

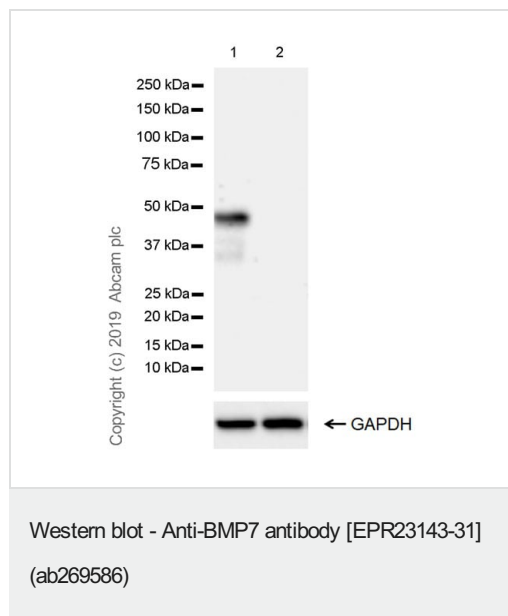
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 49 kDa.
IP		1/30.

Application notes Is unsuitable for Flow Cyt, 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 [EPR23143-31] (ab269586) at 1/1000 dilution

Lane 1 : MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : MDA-MB-231 (human breast adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 49 kDa

Observed band size: 49 kDa

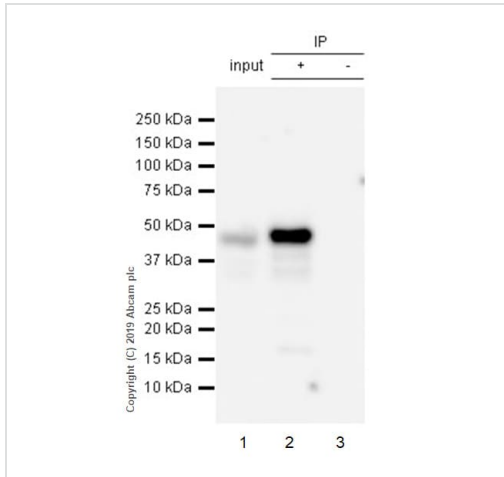
Blocking and diluting buffer and concentration: 5% NFDM/TBST

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID:16419056, 12792780,11807825)

Negative control: MDA-MB-231 (PMID: 16419056)

This blot was developed using a higher sensitivity ECL substrate.

Exposure time: 3 minutes



Immunoprecipitation - Anti-BMP7 antibody
[EPR23143-31] (ab269586)

BMP7 was immunoprecipitated from 0.35 mg MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10µg with ab269586 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab269586 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/1000 dilution.

Lane 1: MCF7 whole cell lysate 10µg

Lane 2: ab269586 IP in MCF7 whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab269586 in MCF7 whole cell lysate

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

Exposure time: 3 seconds.

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-BMP7 antibody [EPR23143-31] (ab269586)

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> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors