

Product datasheet

Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] ab124721

Recombinant RabMAb

★★★★☆ 6 Abreviews 16 References 10 Images

Overview

Product name	Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)]
Description	Rabbit monoclonal [EPR4567(2)] to GDF11 + GDF8/Myostatin
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human GDF11 + GDF8/Myostatin aa 350 to the C-terminus. The exact sequence is proprietary. Database link: O95390
Positive control	WB: HeLa, HEK293 and C6 cell lysate and human heart tissue lysate. C2C12 cell lysate. IHC-P: Human colon adenocarcinoma and cerebral cortex tissues. ICC/IF: A549 cells.
General notes	

This product was previously labelled as BMP11, BMP11 + GDF8 / Myostatin

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

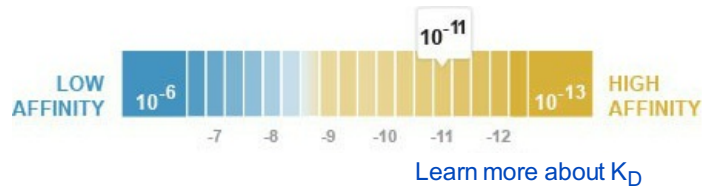
For more information [see here](#).

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.

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. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 6.40 x 10 ⁻¹¹ M



Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4567(2)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab124721** in the following tested applications.

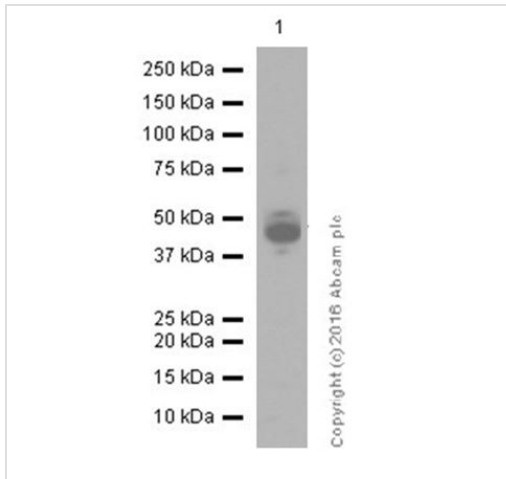
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. Purified format.
ICC/IF		1/250.
WB	★★★★☆	1/1000 - 1/2000. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).
IHC-P	★☆☆☆☆	1/1000 - 1/2500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/500 - 1/1000.

Target

Relevance	O95390: Function - Secreted signal that acts globally to specify positional identity along the anterior/posterior axis during development. Play critical roles in patterning both mesodermal and neural tissues and in establishing the skeletal pattern. O14793: Function - Acts specifically as a negative regulator of skeletal muscle growth.
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Images



Western blot - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)

Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721) at 1/1000 dilution + C2C12 (mouse myoblast) whole cell lysates at 20 µg

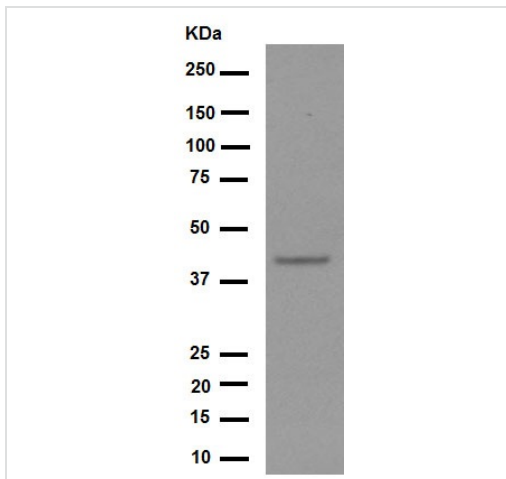
Secondary

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

Predicted band size: 45 kDa

Additional bands at: 45 kDa. We are unsure as to the identity of these extra bands.

Blocking and Diluting buffer: 5% NFDm /TBST



Western blot - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)

Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721) at 1/1000 dilution (purified) + HEK293 cell lysate at 20 µg

Secondary

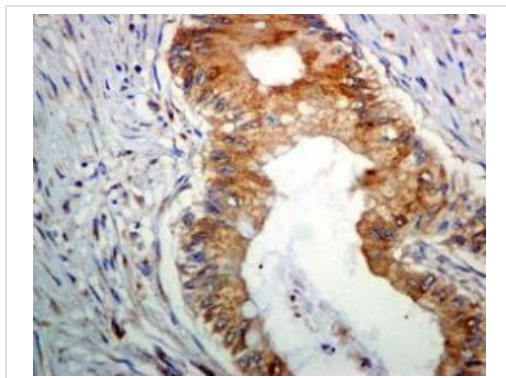
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 45 kDa

Observed band size: 45 kDa

Blocking buffer and concentration: 5% NFDm/TBST.

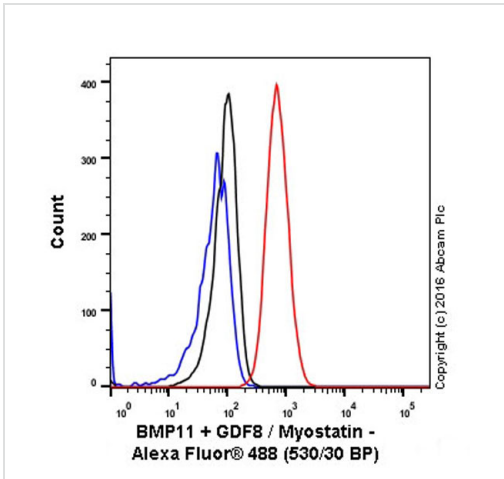
Diluting buffer and concentration: 5% NFDm /TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon adenocarcinoma tissue labelling BMP11 + GDF8/Myostatin with unpurified ab124721 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

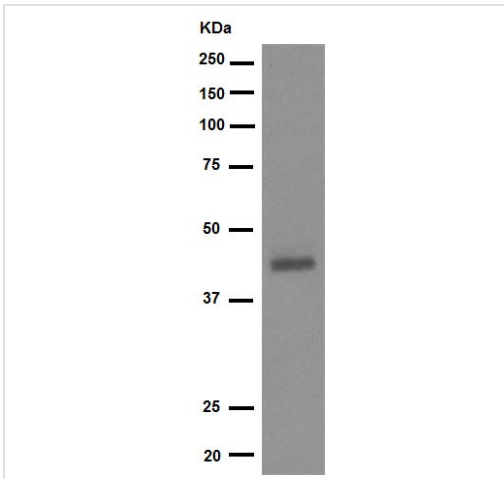


Flow Cytometry - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)

ab124721 staining GDF11 + GDF8/Myostatin in the human cell line HeLa (human cervix adenocarcinoma) by flow cytometry. Cells were fixed with 4% paraformaldehyde, permeabilised with 90% methanol and the sample was incubated with the primary antibody at a dilution of 1/250. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isotype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)



Western blot - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)

Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721) at 1/5000 dilution (purified) + HeLa cell lysate at 10 µg

Secondary

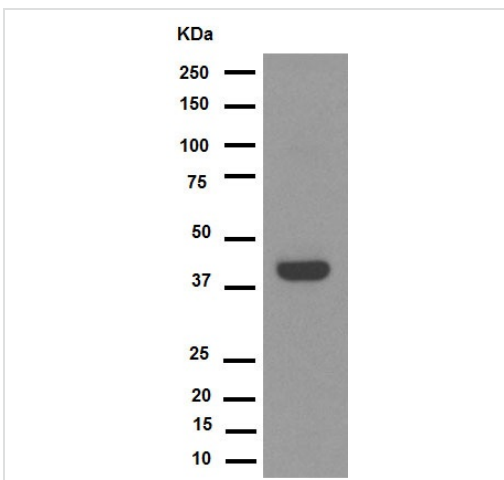
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 45 kDa

Observed band size: 45 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)

Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721) at 1/1000 dilution (purified) + C6 cell lysate at 20 µg

Secondary

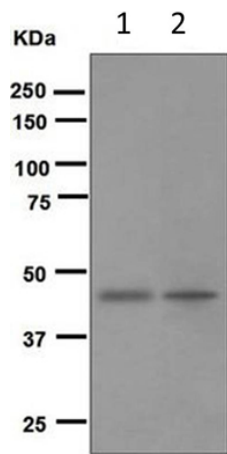
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 45 kDa

Observed band size: 45 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)

All lanes : Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721) at 1/1000 dilution (unpurified)

Lane 1 : HeLa cell lysate

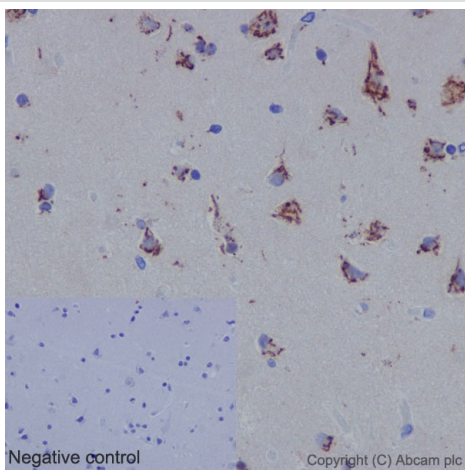
Lane 2 : Human heart tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

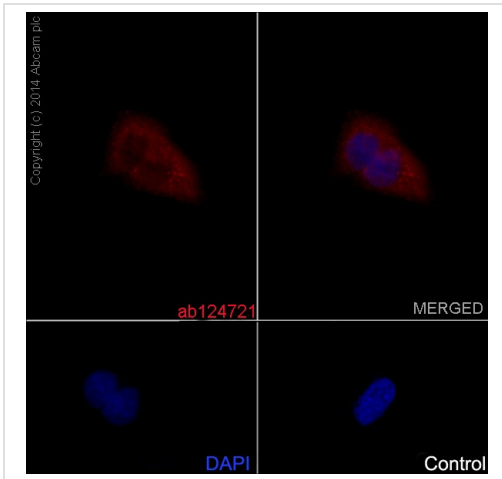
All lanes : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 45 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebral cortex tissue labelling BMP11 + GDF8/Myostatin with purified ab124721 at 1/2500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

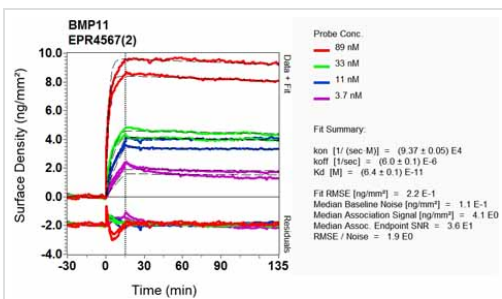
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)



Immunocytochemistry/Immunofluorescence analysis of A549 cells labelling BMP11 + GDF8/Myostatin with purified ab124721 at 1/250. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% triton X-100. ab150078, an Alexa Fluor[®] 555-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/250) and secondary antibody, ab150113, an Alexa Fluor[®] 488-conjugated goat anti-mouse IgG (1/500).

Immunocytochemistry/ Immunofluorescence - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)



Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Other - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)

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