

## Product datasheet

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

Recombinant RabMAb

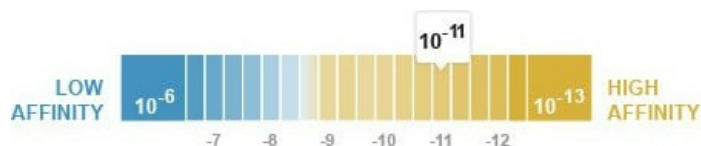
★★★★★ 6 Abreviews 30 References 7 Images

#### Overview

Product name	Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)]
Description	Rabbit monoclonal [EPR4567(2)] to GDF11 + GDF8/Myostatin
Host species	Rabbit
Tested applications	<b>Suitable for:</b> Flow Cyt (Intra), ICC/IF, WB, IHC-P
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Synthetic peptide within Human GDF11 + GDF8/Myostatin aa 350 to the C-terminus. The exact sequence is proprietary. Database link: <a href="#">O95390</a>
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 is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 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 <sub>D</sub> )	K <sub>D</sub> = 6.40 x 10 <sup>-11</sup> M



[Learn more about Kp](#)

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

## Applications

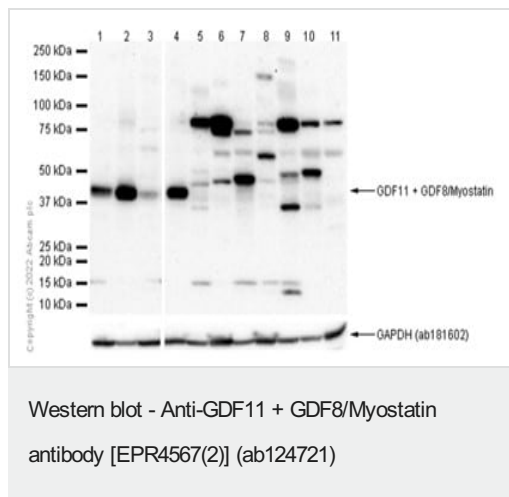
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab124721 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration. Purified format.
ICC/IF		1/250.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).
IHC-P	★★★★★ (4)	1/1000 - 1/2500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <b>IHC antigen retrieval protocols</b> . <b>For unpurified use at 1/500 - 1/1000.</b>

## 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.

## Images



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

**Lane 1 :** HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 2 :** HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

**Lane 3 :** C2C12 (Mouse myoblasts myoblast) whole cell lysate

**Lane 4 :** C6 (Rat glial tumor glial cell) whole cell lysate

**Lane 5 :** Rat liver lysate

**Lane 6 :** Rat heart lysate

**Lane 7 :** Rat kidney lysate

**Lane 8 :** Mouse brain lysate

**Lane 9 :** Mouse liver lysate

**Lane 10 :** Human liver lysate

**Lane 11 :** Human skeletal muscle lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

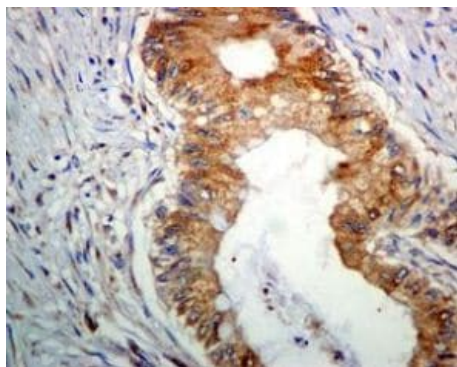
**Predicted band size:** 45 kDa

**Observed band size:** 45 kDa

**Exposure time:** 180 seconds

Blocking and diluting buffer: 5% NFDM/TBST

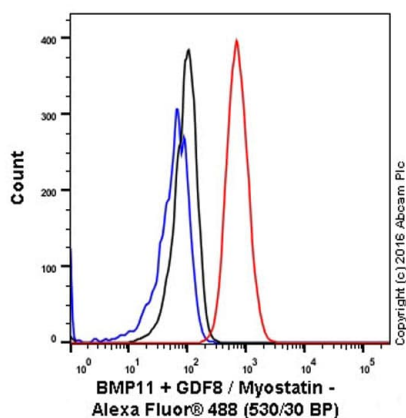
*This antibody is unsuitable to detect tissue samples.*



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.

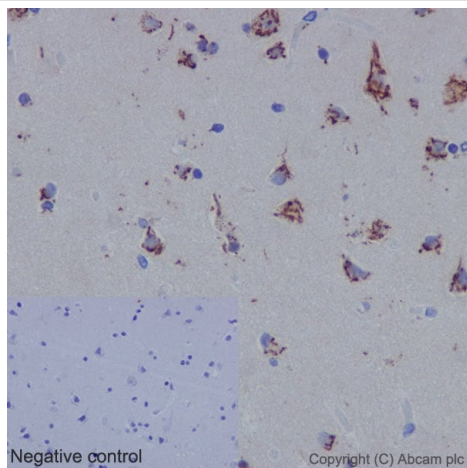


Flow Cytometry (Intracellular) - Anti-GDF11 + GDF8/Myostatin antibody [EPR4567(2)] (ab124721)

ab124721 staining GDF11 + GDF8/Myostatin in the human cell line HeLa (human cervix adenocarcinoma) by intracellular 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.

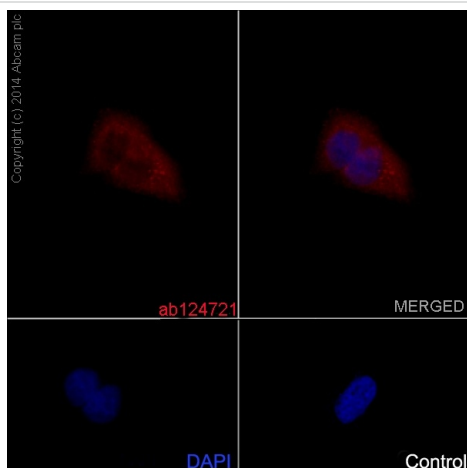
Isoytype control: Rabbit monoclonal IgG (Black)

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



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

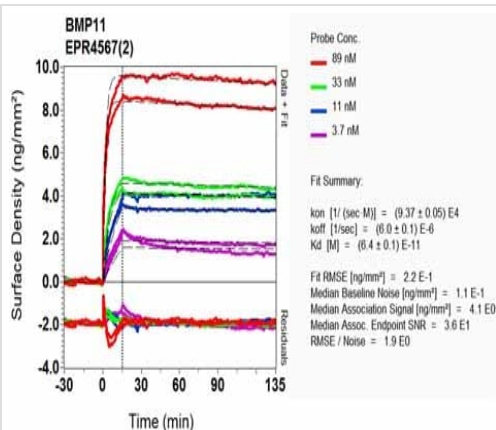
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebral cortex tissue labelling BMP11 + GDF8/Myostatin with purified ab124721 at 1/2500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG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



Immunocytochemistry/ Immunofluorescence - 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<sup>®</sup> 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<sup>®</sup> 488-conjugated goat anti-mouse IgG (1/500).



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

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

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

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

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

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