

## Product datasheet

### Anti-FGF9/GAF antibody [EPR19937] ab206408

Recombinant RabMAb

[6 References](#) [5 Images](#)

#### Overview

<b>Product name</b>	Anti-FGF9/GAF antibody [EPR19937]
<b>Description</b>	Rabbit monoclonal [EPR19937] to FGF9/GAF
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human FGF9/GAF active protein; human fetal brain, fetal kidney and ovary cancer lysates; mouse kidney and brain lysates; rat brain lysate; C6, PC-12, NIH/3T3 and U-87 MG whole cell lysates.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19937

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab206408 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. Detects a band of approximately 26 kDa (predicted molecular weight: 23 kDa).

## Target

### Function

May have a role in glial cell growth and differentiation during development, gliosis during repair and regeneration of brain tissue after damage, differentiation and survival of neuronal cells, and growth stimulation of glial tumors.

### Tissue specificity

Glial cells.

### Involvement in disease

Defects in FGF9 are the cause of multiple synostoses syndrome type 3 (SYNS3) [MIM:612961]. Multiple synostoses syndrome is an autosomal dominant condition characterized by progressive joint fusions of the fingers, wrists, ankles and cervical spine, characteristic facies and progressive conductive deafness.

### Sequence similarities

Belongs to the heparin-binding growth factors family.

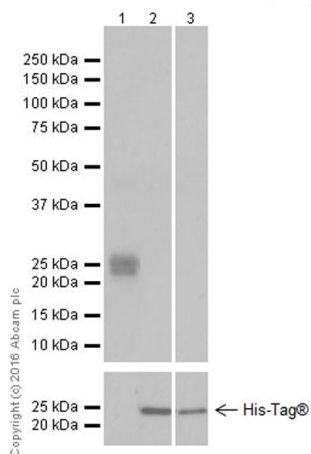
### Post-translational modifications

Three molecular species were found (30 kDa, 29 kDa and 25 kDa), cleaved at Leu-4, Val-13 and Ser-34 respectively. The smaller ones might be products of proteolytic digestion. Furthermore, there may be a functional signal sequence in the 30 kDa species which is uncleavable in the secretion step.  
N-glycosylated.

### Cellular localization

Secreted.

## Images



Western blot - Anti-FGF9/GAF antibody [EPR19937]  
(ab206408)

**All lanes :** Anti-FGF9/GAF antibody [EPR19937] (ab206408) at  
1/1000 dilution

**Lane 1 :** Human FGF9/GAF active protein

**Lane 2 :** Human FGF16 recombinant protein

**Lane 3 :** Human FGF20 recombinant protein

Lysates/proteins at 0.01 µg per lane.

#### Secondary

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

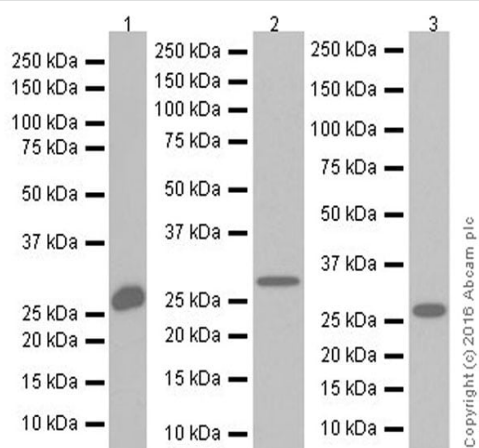
**Predicted band size:** 23 kDa

**Observed band size:** 23 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1/2: 1 seconds; Lane 3: 15 seconds.

Human FGF9/GAF active protein contains aa1-208; FGF16 and  
FGF20 recombinant protein contain aa1-203 and aa4-208  
respectively, both with His-Tag®.



Western blot - Anti-FGF9/GAF antibody [EPR19937]  
(ab206408)

**All lanes :** Anti-FGF9/GAF antibody [EPR19937] (ab206408) at  
1/1000 dilution

**Lane 1 :** Human fetal brain lysate

**Lane 2 :** Human fetal kidney lysate

**Lane 3 :** Human ovary cancer lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to  
the non-reduced form of IgG at 1/100000 dilution

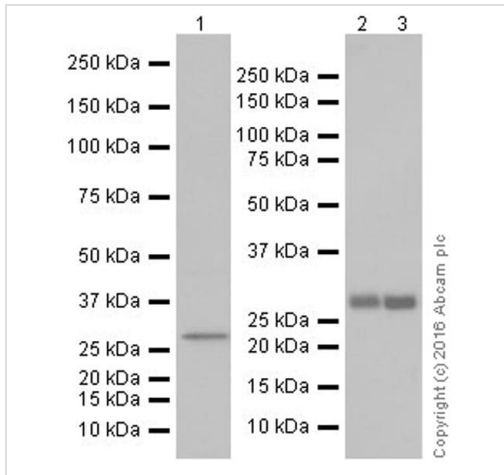
**Predicted band size:** 23 kDa

**Observed band size:** 26 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1/2: 15 seconds; Lane 3: 30 seconds.

The MW observed is consistent with the literature (PMID:16452189, PMID: 25925261).



Western blot - Anti-FGF9/GAF antibody [EPR19937] (ab206408)

**All lanes** : Anti-FGF9/GAF antibody [EPR19937] (ab206408) at 1/1000 dilution

**Lane 1** : Mouse kidney lysate

**Lane 2** : Mouse brain lysate

**Lane 3** : Rat brain lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

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

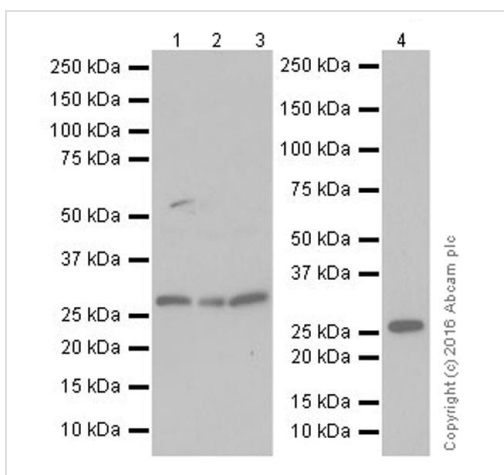
**Predicted band size:** 23 kDa

**Observed band size:** 26 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1/2: 15 seconds; Lane 3: 30 seconds.

The MW observed is consistent with the literature (PMID:16452189, PMID: 25925261).



Western blot - Anti-FGF9/GAF antibody [EPR19937] (ab206408)

**All lanes** : Anti-FGF9/GAF antibody [EPR19937] (ab206408) at 1/1000 dilution

**Lane 1** : C6 (Rat glial tumor cell line) whole cell lysate

**Lane 2** : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

**Lane 3** : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

**Lane 4** : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

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

**Predicted band size:** 23 kDa





**Observed band size:** 26 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1-3: 15 seconds; Lane 4: 3 minutes.

The MW observed is consistent with the literature (PMID:16452189, PMID: 25925261).

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-FGF9/GAF antibody [EPR19937] (ab206408)

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

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