abcam

## Product datasheet

# Anti-GDF1 antibody [EPR5815] ab124706

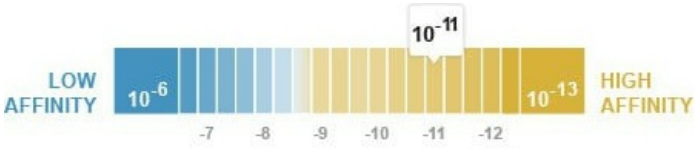
Recombinant RabMAb

1 References 3 Images

### Overview

| | |
|---|---|
| **Product name** | Anti-GDF1 antibody [EPR5815] |
| **Description** | Rabbit monoclonal [EPR5815] to GDF1 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB<br>**Unsuitable for:** Flow Cyt,ICC/IF or IHC-P |
| **Species reactivity** | **Reacts with:** Human<br>**Predicted to work with:** Mouse, Rat |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | U87-MG and Human fetal brain lysates. |
| **General notes** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. |

### Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| **Dissociation constant ($K_D$)** | $K_D$ = 8.40 x 10 $^{-11}$ M<br>  <br>Learn more about $K_D$ |
| **Storage buffer** | pH: 7.20 |

| | |
|---|---|
| | Preservative: 0.01% Sodium azide<br>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR5815 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab124706 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: 39 kDa. |

**Application notes** Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

## Target

**Function** May mediate cell differentiation events during embryonic development.

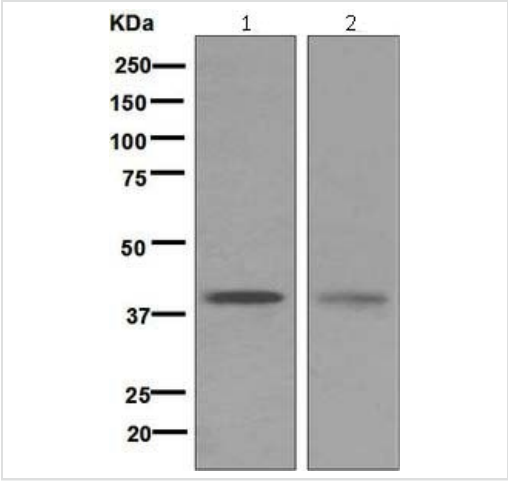
**Tissue specificity** Expressed in the brain.

**Involvement in disease** Defects in GDF1 are a cause of conotruncal heart malformations (CTHM) [MIM:217095]. A group of congenital heart defects involving the outflow tracts. Examples include truncus arteriosus communis, double-outlet right ventricle and transposition of great arteries. Truncus arteriosus communis is characterized by a single outflow tract instead of a separate aorta and pulmonary artery. In transposition of the great arteries, the aorta arises from the right ventricle and the pulmonary artery from the left ventricle. In double outlet of the right ventricle, both the pulmonary artery and aorta arise from the right ventricle.
Defects in GDF1 are the cause of transposition of the great arteries dextro-looped type 3 (DTGA3) [MIM:613854]. A congenital heart defect consisting of complete inversion of the great vessels, so that the aorta incorrectly arises from the right ventricle and the pulmonary artery incorrectly arises from the left ventricle. This creates completely separate pulmonary and systemic circulatory systems, an arrangement that is incompatible with life. The presence or absence of associated cardiac anomalies defines the clinical presentation and surgical management of patients with transposition of the great arteries.
Defects in GDF1 are a cause of tetralogy of Fallot (TOF) [MIM:187500]. A congenital heart anomaly which consists of pulmonary stenosis, ventricular septal defect, dextroposition of the aorta (aorta is on the right side instead of the left) and hypertrophy of the right ventricle. In this condition, blood from both ventricles (oxygen-rich and oxygen-poor) is pumped into the body often causing cyanosis.

**Sequence similarities** Belongs to the TGF-beta family.

**Cellular localization** Secreted.

## Images




Western blot - Anti-GDF1 antibody [EPR5815] (ab124706)

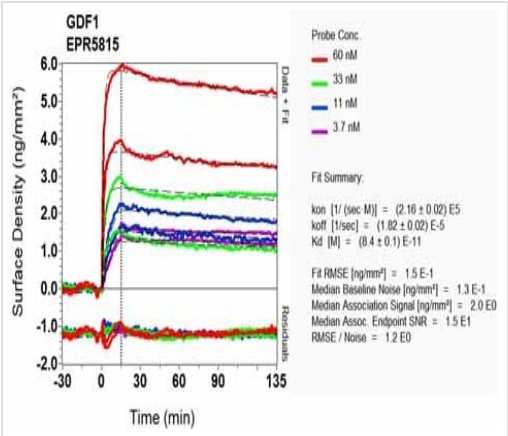
**All lanes :** Anti-GDF1 antibody [EPR5815] (ab124706) at 1/1000 dilution

**Lane 1 :** U87-MG cell lysate

**Lane 2 :** Human fetal brain lysates cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 39 kDa




OI-RD Scanning - Anti-GDF1 antibody [EPR5815] (ab124706)

Equilibrium disassociation constant ($K_D$)

Learn more about $K_D$

**Click here to learn more about $K_D$**


Anti-GDF1 antibody [EPR5815] (ab124706)

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