

Product datasheet

Anti-GDF1 antibody [EPR5815] - BSA and Azide free ab184782

Recombinant RabMAb

3 Images

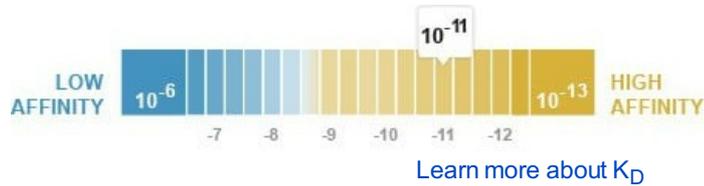
Overview

Product name	Anti-GDF1 antibody [EPR5815] - BSA and Azide free
Description	Rabbit monoclonal [EPR5815] to GDF1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC or IHC-P
Species reactivity	Reacts with: Human 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	<p>ab184782 is the carrier-free version of ab124706.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	K _D = 8.40 x 10 ⁻¹¹ M



Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5815
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab184782 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		Use at an assay dependent concentration. Predicted molecular weight: 39 kDa.

Application notes Is unsuitable for Flow Cyt, ICC 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.

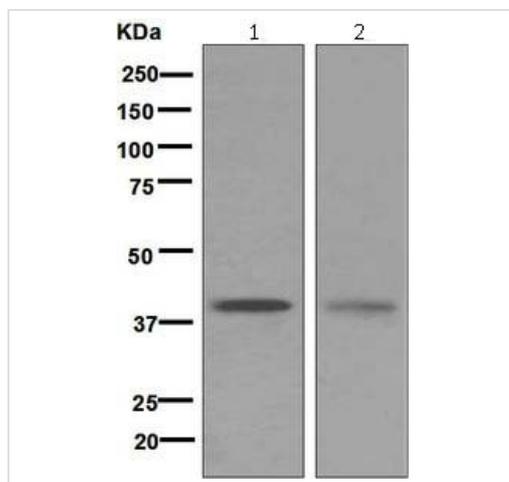
Sequence similarities

Belongs to the TGF-beta family.

Cellular localization

Secreted.

Images

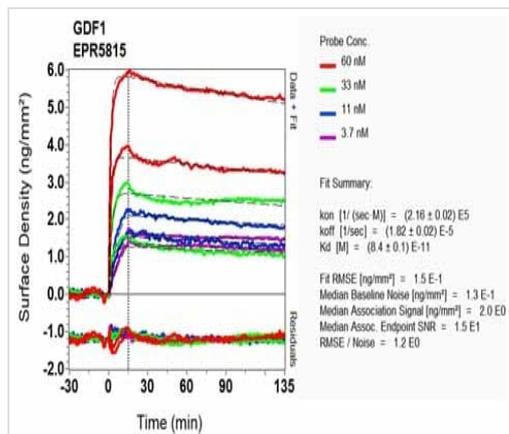


Anti-GDF1 antibody [EPR5815] ([ab124706](#)) at 1/1000 dilution + U87-MG cell lysate at 10 µg

Predicted band size: 39 kDa

This data was developed using [ab124706](#), the same antibody clone in a different buffer formulation.

Western blot - Anti-GDF1 antibody [EPR5815] - BSA and Azide free (ab184782)



This data was developed using [ab124706](#), the same antibody clone in a different buffer formulation. Equilibrium disassociation constant (K_D)

Learn more about K_D

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

OI-RD Scanning - Anti-GDF1 antibody [EPR5815] - BSA and Azide free (ab184782)

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-GDF1 antibody [EPR5815] - BSA and Azide free (ab184782)

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

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