abcam

Product datasheet

Anti-GDF15 antibody [EPR19939] - Low endotoxin, Azide free ab223539

Recombinant RabMAb

1 References 5 Images

Overview

Product name	Anti-GDF15 antibody [EPR19939] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EPR19939] to GDF15 - Low endotoxin, Azide free
Host species	Rabbit
Tested applications	**Suitable for:** ELISA, IP, WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HepG2 and LNCaP whole cell lysates; human prostate cancer and placenta lysates; untreated HT1080 and treated with 200ng/ml Phorbol-12-myristate-13-acetate (TPA) for 24 hours whole cell lysates. IHC-P: Human placenta and prostate hyperplasia tissues. IP: HepG2 whole cell lysate.
General notes	ab223539 is the carrier-free version of **ab206414**. 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. 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. 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. 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. 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**.

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19939
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab223539 in the following tested applications.

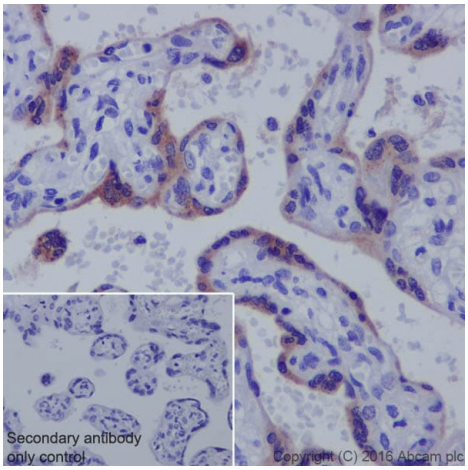
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 35, 12.5 kDa (predicted molecular weight: 34 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. IHC tests show positive staining only on human placenta and prostate hyperplasia tissues, other tissues tested were negative.

Target

Tissue specificity	Highly expressed in placenta, with lower levels in prostate and colon and some expression in kidney.
Sequence similarities	Belongs to the TGF-beta family.
Cellular localization	Secreted.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GDF15 antibody [EPR19939] - Low endotoxin, Azide free (ab223539)

Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling GDF15 with **ab206414** at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

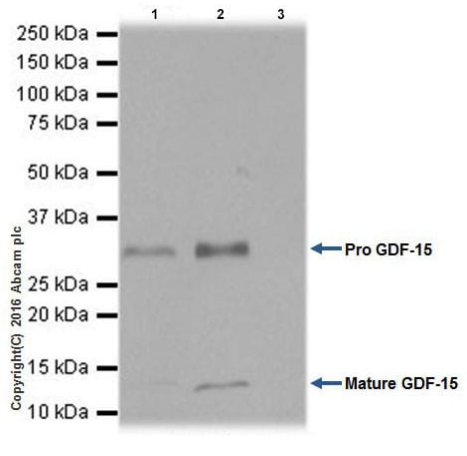
Cytoplasmic staining on human placenta is observed (PMID: 9593718). Positive staining on human placenta and prostate hyperplasia, other tissues tested were negative.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab206414**).

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



Immunoprecipitation - Anti-GDF15 antibody [EPR19939] - Low endotoxin, Azide free (ab223539)

GDF15 was immunoprecipitated from 0.35 mg of HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate with **ab206414** at 1/30 dilution.

Western blot was performed from the immunoprecipitate using **ab206414** at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: HepG2 whole cell lysate 10µg (Input).

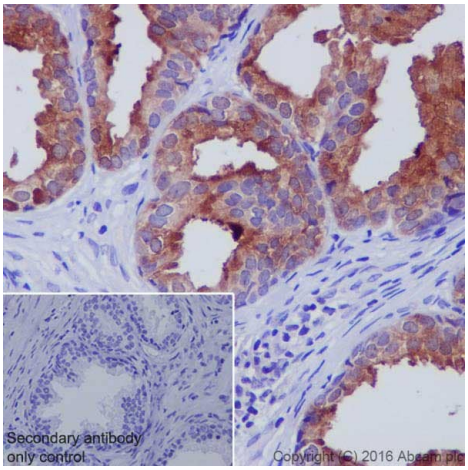
Lane 2: **ab206414** IP in HepG2 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of **ab206414** in HepG2 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab206414**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GDF15 antibody [EPR19939] - Low endotoxin, Azide free (ab223539)

This IHC data was generated using the same anti-GFD15 antibody clone [EPR19939] in a different buffer formulation (cat# **ab206414**).

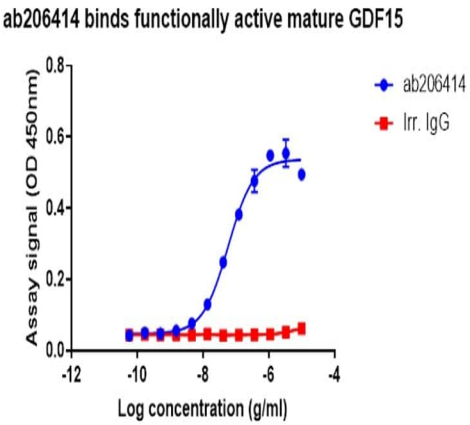
Immunohistochemical analysis of paraffin-embedded human prostate hyperplasia tissue labeling GDF15 with **ab206414** at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Cytoplasmic staining on human prostate hyperplasia is observed (PMID: 9593718). Positive staining on human placenta and prostate hyperplasia, other tissues tested were negative.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

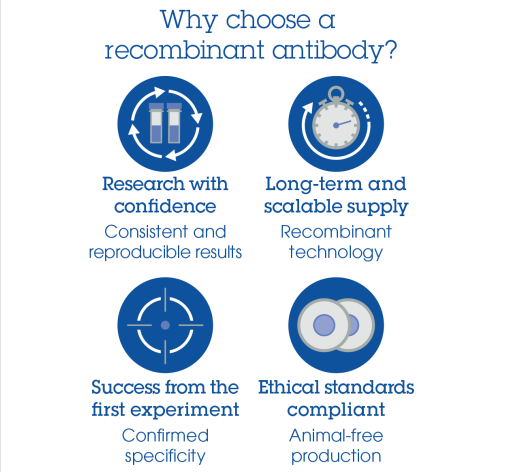
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



ELISA - Anti-GDF15 antibody [EPR19939] - Low endotoxin, Azide free (ab223539)

ELISA analysis of **ab206414** binding functionally active mature GDF15 (**ab50077**) at 1 µg/mL.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab206414**).



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