abcam

Product datasheet

Anti-GDF15 antibody ab39999

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Overview

Product name	Anti-GDF15 antibody
Description	Goat polyclonal to GDF15
Host species	Goat
Tested applications	**Suitable for:** WB, IHC-Fr, ICC/IF, IHC-P, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Rat, Human **Predicted to work with:** Mouse
Immunogen	Synthetic peptide: QKTDTGVSLQTYDD, corresponding to C terminal amino acids 286-299 of Human GDF15 Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Flow Cyt (Intra): HeLa cells. WB: Human prostate lysates, A549 cell lysate, CaCo-2 cell lysate, LNCaP cell lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab39999 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	★★★☆☆ (2)	Use a concentration of 0.1 µg/ml. Detects a band of approximately 30-35 kDa (predicted molecular weight: 34 kDa). 1 hour primary incubation is recommended for this product.
IHC-Fr	★★★★☆ (1)	Use at an assay dependent concentration. See Abreview.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P	★★★☆☆ (1)	Use a concentration of 7 µg/ml.
Flow Cyt (Intra)		Use a concentration of 10 µg/ml.

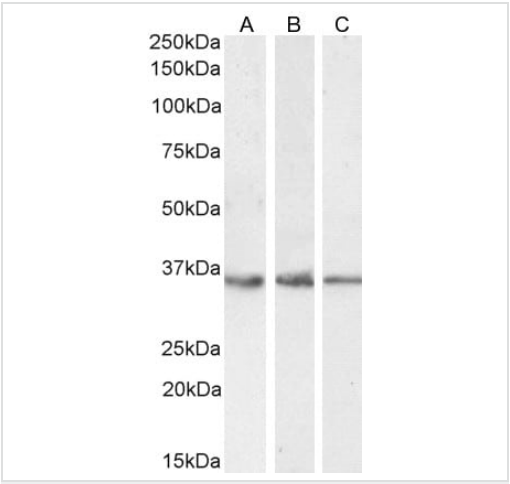
Target

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



Western blot - Anti-GDF15 antibody (ab39999)

Lanes 1-2 : Anti-GDF15 antibody (ab39999) at 0.1 µg/ml

Lane 3 : Anti-GDF15 antibody (ab39999) at 0.3 µg/ml

Lane 1 : A549 cell lysate

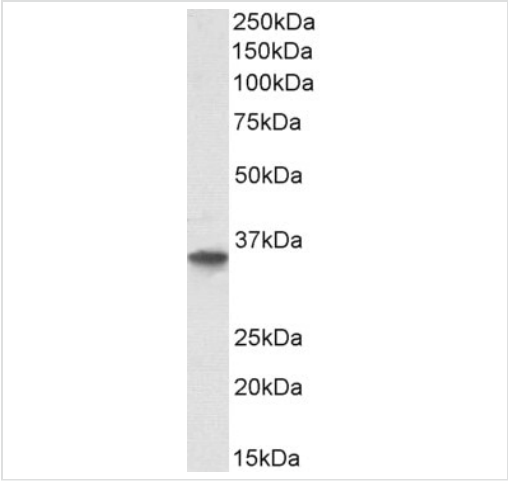
Lane 2 : CaCo-2 cell lysate

Lane 3 : LNCaP cell lysate

Lysates/proteins at 35 µg per lane.

Predicted band size: 34 kDa

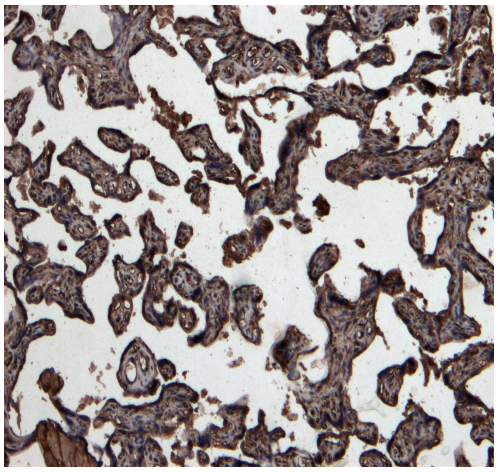
Detected by chemiluminescence.



Western blot - Anti-GDF15 antibody (ab39999)

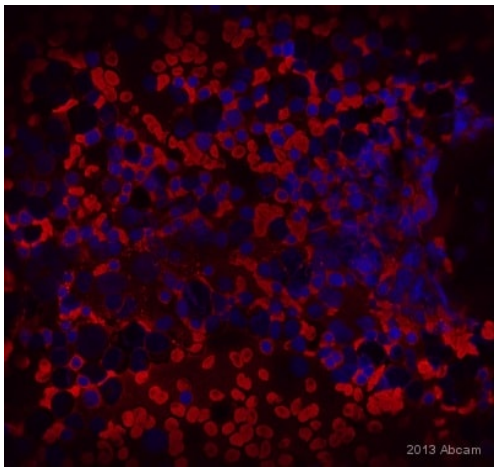
Anti-GDF15 antibody (ab39999) at 0.5 µg/ml + Human prostate whole cell lysate (protein in RIPA buffer) at 35 µg

Predicted band size: 34 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GDF15 antibody (ab39999)

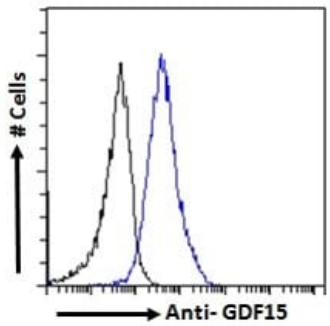
Immunhistochemical analysis of paraffin embedded Human placenta stained with ab39999 at 7 µg/ml. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Immunocytochemistry/ Immunofluorescence - Anti-GDF15 antibody (ab39999)

This image is courtesy of an abreview submitted by Dr. Ruma Raha-Chowdhury, Cambridge University, United Kingdom.

ICC/IF image of human bone marrow smear stained with Ab39999(1/250). The smear was permeabilized in 0.1% PBS-Triton X for 1h and incubated with 10% donkey serum for 1hr at 24°C to block non-specific protein-protein interactions. The sections were then incubated with ab39999 used at 1/250 dilution, overnight at +4°C. The secondary antibody was Alexa Fluor® 568 donkey anti-goat used at a 1/1000 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Flow Cytometry (Intracellular) - Anti-GDF15 antibody (ab39999)

Flow cytometric analysis of paraformaldehyde fixed, 0.5% Triton permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling GDF-15 using ab39999 at 10 µg/ml followed by Alexa Fluor 488 secondary antibody (blue) at 1 µg/ml. Unimmunized goat IgG was used as isotype control, followed by Alexa Fluor 488 secondary antibody (black).

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