

Product Datasheet

GDF-15 Antibody - BSA Free

NBP1-81050

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-81050

GDF-15 Antibody - BSA Free

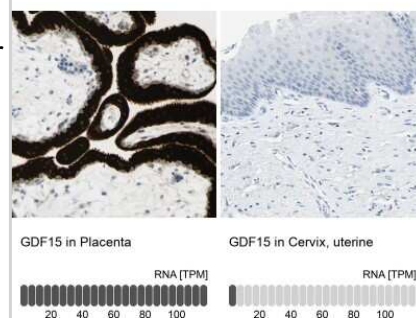
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	34 kDa

Product Description	
Host	Rabbit
Gene ID	9518
Gene Symbol	GDF15
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LSLAEASRASFPGPSELHSEDSRFRELRKRYEDLLTRLRANQSWEDSNTDLVP APAVRILTPEVRLGSGGHLHLRISRRAALPEGLPEASRLHRLFRLSPTASRSWD VTRPLRRQLSLARPQAPALHLRLSPPPSQSDQL

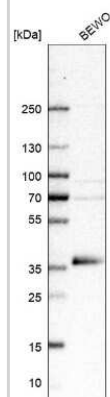
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunoprecipitation Reactivity reported in (PMID: 26114631)., Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

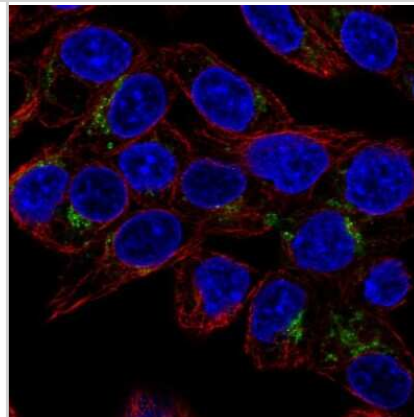
Immunohistochemistry-Paraffin: GDF-15 Antibody [NBP1-81050] - Analysis in human placenta and cervix, uterine tissues using NBP1-81050 antibody. Corresponding GDF-15 RNA-seq data are presented for the same tissues.



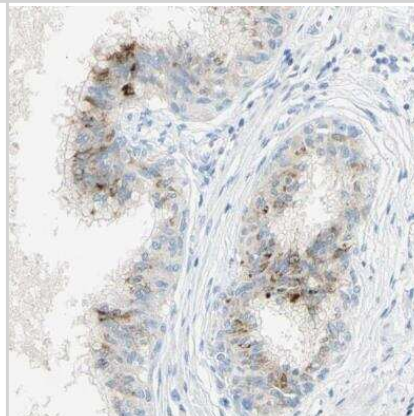
Western Blot: GDF-15 Antibody [NBP1-81050] - Analysis in human cell line BEWO.



Immunocytochemistry/Immunofluorescence: GDF-15 Antibody [NBP1-81050] - Staining of human cell line Hep G2 shows localization to the Golgi apparatus.



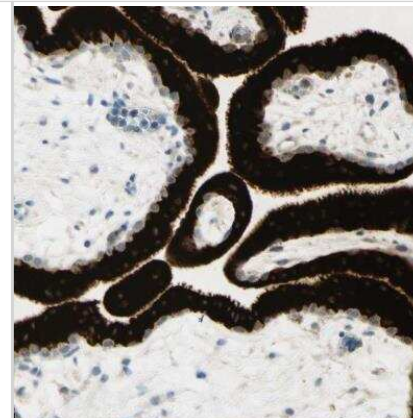
Immunohistochemistry-Paraffin: GDF-15 Antibody [NBP1-81050] - Staining of human prostate shows moderate cytoplasmic positivity in a small subset of glandular cells.



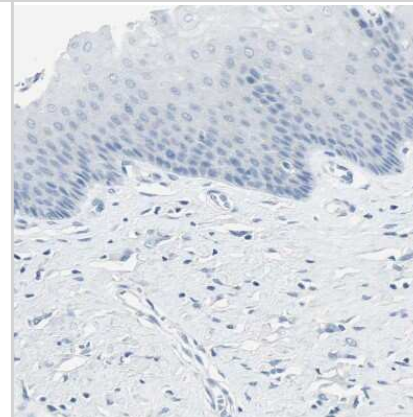
Immunohistochemistry-Paraffin: GDF-15 Antibody [NBP1-81050] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



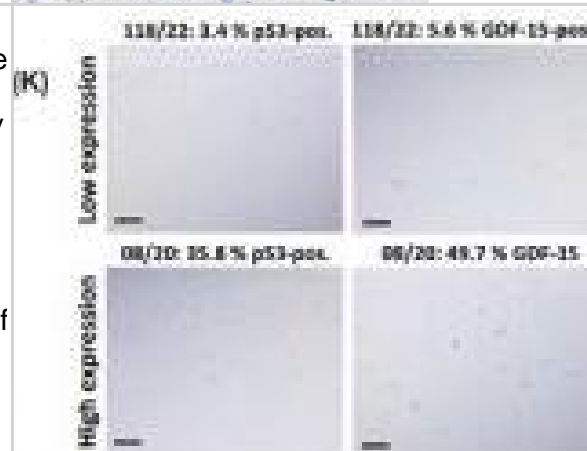
Immunohistochemistry-Paraffin: GDF-15 Antibody [NBP1-81050] - Staining of human placenta shows very strong cytoplasmic positivity in trophoblastic cells.



Immunohistochemistry-Paraffin: GDF-15 Antibody [NBP1-81050] - Staining of human cervix shows no positivity in squamous epithelial cells as expected.



GDF β 15 expression is modulated by ROS β induced p53 activation. (A) Relative release of GDF β 15 at 7 days and 14 days after ex vivo cartilage trauma of untreated or NAC β treated explants. (B) Gene expression of GDF15 and (C, D) detection of intracellular ROS levels by DCFDA assay in isolated hAC upon H₂O₂ exposure for 48 h. (E) Release of GDF β 15 by H₂O₂ β treated hAC with or without treatment of NAC. (F) Representative images of IF staining of p53 in H₂O₂ β treated hAC. (G) Correlation analysis between CTCF values of p53 staining and GDF β 15 concentrations of unstimulated or H₂O₂ β treated hAC. (H) Quantification of posttraumatic p53 activation (detected by means of IHC) and effects of antioxidative therapy by NAC at 7 days after ex vivo cartilage trauma. Gene expression analysis of GDF β 15 in hAC after stimulation with (I) the MDM2 antagonist (p53 inducing) Nutlin β 3a and (J) the inhibitor of p53 transcription activity, Pifithrin β α or Pifithrin β μ . (K) Representative images of IHC staining against p53 and GDF β 15 in human cartilage and (L) corresponding correlation analysis. The white bars in (C) and (F) represent 100 μ m. The black bars in (K) represent 200 μ m. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/41287825>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Joo M, Lee H, Kim J GDF15 promotes gallbladder cancer progression by activating the NF- κ B mediated Vascular Endothelial Growth Factor A (VEGFA) expression American Journal of Cancer Research 2025-06-25 [PMID: 40667558]

Cao M, Gu L, Guo L et al. Elevated Expression of Growth Differentiation Factor-15 Is Associated With Acute Exacerbation of Idiopathic Pulmonary Fibrosis Frontiers in Immunology 2022-06-15 [PMID: 35784345]

Joo M, Kim D, Lee MW et al. GDF15 Promotes Cell Growth, Migration, and Invasion in Gastric Cancer by Inducing STAT3 Activation International journal of molecular sciences 2023-02-02 [PMID: 36769245] (IHC-P, Human)

Details:

Dilution used in IHC-P 1:200

Hong W, Chen Jh, Ma Hj Et Al. Fragile X-Related Protein 1 (FXR1) Promotes Trophoblast Migration at Early Pregnancy via Downregulation of GDF-15 Expression Reproductive sciences (Thousand Oaks, Calif.) 2021-07-21 [PMID: 34291416] (ICC/IF)

Uchiyama T, Kawabata H, Miura Y et al. The role of growth differentiation factor 15 in the pathogenesis of primary myelofibrosis. Cancer Med 2015-10-01 [PMID: 26276681] (IF/IHC, Human)

Lee J, Fricke F, Warnken U et al. Reconstitution of TGFBR2-Mediated Signaling Causes Upregulation of GDF-15 in HCT116 Colorectal Cancer Cells. PLoS One 2015-01-01 [PMID: 26114631] (WB, IP)

Liu X, Chi X, Gong Q et al. Association of Serum Level of Growth Differentiation Factor 15 with Liver Cirrhosis and Hepatocellular Carcinoma. PLoS One 2015-01-01 [PMID: 25996938] (IF/IHC, Human)

Naoki Urakawa, Soken Utsunomiya, Mari Nishio et al. GDF15 derived from both tumor-associated macrophages and esophageal squamous cell carcinomas contributes to tumor progression via Akt and Erk pathways. Laboratory Investigation 2015-03-02 [PMID: 25730371] (IF/IHC, Human)

Nickel N, Jonigk D, Kempf T et al. GDF-15 is abundantly expressed in plexiform lesions in patients with pulmonary arterial hypertension and affects proliferation and apoptosis of pulmonary endothelial cells. Respir Res. 2011-05-01 [PMID: 21548946]

Wallin U, Glimelius B, Jirstrom K et al. Growth differentiation factor 15: a prognostic marker for recurrence in colorectal cancer. Br J Cancer. 2011-05-01 [PMID: 21468045]

Tabrizi AD, Kalloger SE, Kobel M et al. Primary ovarian mucinous carcinoma of intestinal type: significance of pattern of invasion and immunohistochemical expression profile in a series of 31 cases. Int J Gynecol Pathol. 2010-03-01 [PMID: 20173494]

Roth P, Junker M, Tritschler I et al. GDF-15 contributes to proliferation and immune escape of malignant gliomas. Clin Cancer Res. 2010-08-01 [PMID: 20534737]





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Products Related to NBP1-81050

NBP1-81050PEP	GDF-15 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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