

Rabbit anti-Human GDF15 Polyclonal Antibody | anti-GDF15 antibody

GDF15 Antibody (N-term)

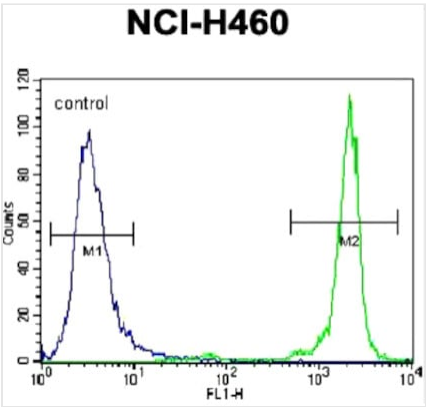
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289598	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

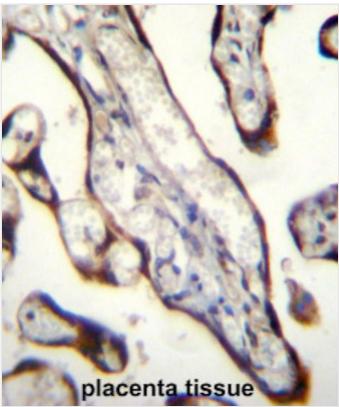
GDF15; Polyclonal Antibody; GDF15 Antibody (N-term); Growth/differentiation factor 15; GDF-15; Macrophage inhibitory cytokine 1; MIC-1; NSAID-activated gene 1 protein; NAG-1; NSAID-regulated gene 1 protein; NRG-1; Placental TGF-beta; Placental bone morphogenetic protein; Prostate differentiation factor; MIC1; PDF; PLAB; PTGFB; anti-GDF15 antibody

PRODUCT SPECIFICATIONS

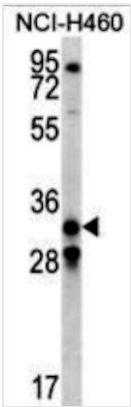
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GDF15 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 51-79 amino acids from the N-terminal region of human GDF15.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	51-79
Applicable Applications for anti-GDF15 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Function	Regulates food intake, energy expenditure and body weight in response to metabolic and toxin-induced stresses (PubMed: , PubMed: 28846097, PubMed: , PubMed: 28846099, PubMed: , PubMed: 29046435). Binds to its receptor, GFRAL, and activates GFRAL expressing neurons localized in the area postrema and nucleus tractus solitarius of the brainstem (PubMed: , PubMed: 28846097, PubMed: , PubMed: 28846099). It then triggers the activation of neurons localized within the parabrachial nucleus and central amygdala, which constitutes part of the 'emergency circuit' that shapes feeding responses to stressful conditions (PubMed: 28953886). On hepatocytes, inhibits growth hormone signaling (By similarity).
Cellular Location	Secreted
Tissue Location	Highly expressed in placenta, with lower levels in prostate and colon and some expression in kidney (PubMed:9348093) Detected in plasma (at protein level) (PubMed:28572090, PubMed:29046435).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
GDF15 Antibody (N-term) (AAA289598) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
GDF15 Antibody (N-term) (AAA289598) immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GDF15 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
GDF15 Antibody (N-term) (AAA289598) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the GDF15 antibody detected the GDF15 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-GDF15 antibody	Bone morphogenetic proteins (e.g., BMP9; MIM 605120) are members of the transforming growth factor-beta (see TGFβ1; MIM 190180) superfamily and regulate tissue differentiation and maintenance. They are synthesized as precursor molecules that are processed at a dibasic cleavage site to release C-terminal domains containing a characteristic motif of 7 conserved cysteines in the mature protein.
Product Categories/Family for anti-GDF15 antibody	Cardiovascular; Cell biology; Signal transduction
References	Anand, I.S., et al. Circulation 122(14):1387-1395(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Staff, A.C., et al. Gynecol. Oncol. 118(3):237-243(2010) Roth, P., et al. Clin. Cancer Res. 16(15):3851-3859(2010) Huh, S.J., et al. Am. J. Pathol. 176(6):2948-2957(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	153792495
NCBI GeneID	9518
NCBI Accession #	NP_004855.2

NCBI GenBank Nucleotide #	NM_004864.2
UniProt Accession #	Q99988; O14629; P78360; Q9BWA0; Q9NRT0
Molecular Weight	Calculated MW: 34140
NCBI Official Full Name	growth/differentiation factor 15
NCBI Official Synonym Full Names	growth differentiation factor 15
NCBI Official Symbol	GDF15
NCBI Official Synonym Symbols	PDF; MIC1; PLAB; MIC-1; NAG-1; PTGFB; GDF-15
NCBI Protein Information	growth/differentiation factor 15
UniProt Protein Name	Growth/differentiation factor 15
UniProt Gene Name	GDF15
UniProt Synonym Gene Names	MIC1; PDF; PLAB; PTGFB; GDF-15; MIC-1; NAG-1; NRG-1
UniProt Entry Name	GDF15_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/gdf15-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/289598>