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GDF15 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12553a

Specification

GDF15 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q99988

GDF15 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 9518

Other Names
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, GDF15, MIC1, PDF, PLAB, PTGFB

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GDF15 Antibody (N-term) Blocking peptide - Protein Information

Name GDF15 (HGNC:30142)

Function
Regulates food intake, energy expenditure and body weight in response to metabolic and toxin-induced stresses (PubMed:28953886, PubMed:28846097, PubMed:28846098, PubMed:28846099, PubMed:23468844, 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:28953886, PubMed:28846097, PubMed:28846098, 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).

GDF15 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

GDF15 Antibody (N-term) Blocking peptide - Images

GDF15 Antibody (N-term) Blocking peptide - Background

Bone morphogenetic proteins (e.g., BMP9; MIM 605120) aremembers of the transforming growth factor-beta (see TGFB1; MIM190180) superfamily and regulate tissue differentiation andmaintenance. They are synthesized as precursor molecules that areprocessed at a dibasic cleavage site to release C-terminal domainscontaining a characteristic motif of 7 conserved cysteines in themature protein.

GDF15 Antibody (N-term) Blocking peptide - 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)