

Human Growth Differentiation Factor 5 (GDF5) CLIA Kit | GDF5 clia kit

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CATALOG # AAA189076	REACTIVITY Human	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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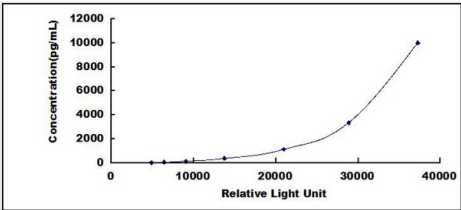
PRODUCT SYNONYMS

Growth Differentiation Factor 5 (GDF5); Human Growth Differentiation Factor 5 (GDF5) CLIA Kit; Growth Differentiation Factor 5; CDMP1; LAP4; SYNS2; BMP14; Radotermis; Cartilage-Derived Morphogenetic Protein-1; Bone morphogenetic protein 14; Lipopolysaccharide-associated protein 4; GDF5 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Growth Differentiation Factor 5 (GDF5). No significant cross-reactivity or interference between Growth Differentiation Factor 5 (GDF5) and analogues was observed.
Sequence Length	501
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	13.7-10,000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 5.7pg/mL
Applicable Applications for GDF5 clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Growth Differentiation Factor 5 (GDF5) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Growth Differentiation Factor 5 (GDF5) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The microplate provided in this kit has been pre-coated with an antibody specific to Growth Differentiation Factor 5 (GDF5). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Growth Differentiation Factor 5 (GDF5). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Growth Differentiation Factor 5 (GDF5) level in the sample or standard.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	20141384
NCBI GeneID	8200
UniProt Accession #	P43026
NCBI Official Full Name	Growth/differentiation factor 5
NCBI Official Synonym Full Names	growth differentiation factor 5
NCBI Official Symbol	GDF5
NCBI Official Synonym Symbols	OS5; LAP4; BDA1C; BMP14; CDM1; LAP-4; SYM1B; SYNS2; BMP-14; DUPANS
NCBI Protein Information	growth/differentiation factor 5
UniProt Protein Name	Growth/differentiation factor 5
UniProt Gene Name	GDF5
UniProt Synonym Gene Names	BMP14; CDM1; GDF-5; BMP-14; CDM-1; LAP-4; LPS-associated protein 4
UniProt Entry Name	GDF5_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://stage.aaabiotech.com/human-clia-kits/growth-differentiation-factor-5-gdf5/189076>