GDF11 ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	GDF11, ELISA Kit
Full Product Name	Monkey GDF11 (Growth Differentiation Factor 11) ELISA Kit
Product Gene Name	GDF11 elisa kit
Species Reactivity	Monkey
Assay Type	Quantitative Sandwich
Samples	Serum, plasma and other biological fluids
Detection Range	78.13-5000pg/mL
Sensitivity	46.88pg/mL
Specificity	This kit recognizes Monkey GDF11 in samples. No significant cross-reactivity or interference between Monkey GDF11 and analogues was observed.
Preparation and Storage	Store at 4 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Monkey GDF11 were tested on 3 different plates, 20 replicates in each plate.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Monkey GDF11 were tested 20 times on one plate, respectively.
Molecular Weight	45,091 Da
OMIM	603936
3D Structure	ModBase 3D Structure for O95390
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GDF11 elisa kit	Principle of the Assay: This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Monkey GDF11. Standards or samples are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Monkey GDF11 and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Monkey GDF11, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm ± 2 nm. The OD value is proportional to the concentration of Monkey GDF11. You can calculate the concentration of Monkey GDF11 in the samples by comparing the OD of the samples to the standard curve. Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Monkey GDF11 concentrations in serum, plasma and other biological fluids.
Other Notes	Small volumes of GDF11 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for GDF11 purchase	MBS2508115 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the GDF11, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GDF11. The ELISA analytical biochemical technique of the MBS2508115 kit is based on GDF11 antibody-GDF11 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GDF11 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GDF11. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GDF11. It may not necessarily be applicable to this product.

NCBI GI #	5031613
NCBI GeneID	10220
NCBI Accession #	NP_005802.1
UniProt Primary Accession #	O95390
UniProt Secondary Accession #	Q9UID1; Q9UID2
UniProt Related Accession #	O95390
GenBank Nucleotide #	NM_005811.3
NCBI Official Full Name	growth/differentiation factor 11
NCBI Official Synonym Full Names	growth differentiation factor 11
NCBI Official Symbol	GDF11
NCBI Official Synonym Symbols	BMP11; BMP-11
UniProt Protein Name	Growth/differentiation factor 11
UniProt Synonym Protein Names	Bone morphogenetic protein 11; BMP-11
Protein Family	Growth/differentiation factor
UniProt Gene Name	GDF11
UniProt Synonym Gene Names	BMP11; GDF-11; BMP-11
UniProt Entry Name	GDF11_HUMAN
NCBI Protein Information	growth/differentiation factor 11; GDF-11; bone morphogenetic protein 11
NCBI Summary for GDF11	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in mice and Xenopus suggest that this protein is involved in mesodermal formation and neurogenesis during embryonic development. [provided by RefSeq, Jul 2008]

UniProt Comments for GDF11	GDF11: Secreted signal that acts globally to specify positional identity along the anterior/posterior axis during development. Play critical roles in patterning both mesodermal and neural tissues and in establishing the skeletal pattern. Belongs to the TGF-beta family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 12q13.2 Cellular Component: extracellular space Molecular Function: growth factor activity; cytokine activity; transforming growth factor beta receptor binding Biological Process: nervous system development; cell maturation; palate development; regulation of apoptosis; negative regulation of cell proliferation; negative regulation of cell differentiation; camera-type eye morphogenesis; spinal cord anterior/posterior patterning; ureteric bud development; regulation of MAPKKK cascade; pancreas development; mesoderm development; cell development; metanephros development; skeletal development; growth
Research Articles on GDF11	**1.** These data demonstrate GDF11 to be a master regulator of neural stem cell transcription that can suppress cell proliferation and migration by regulating the expression of numerous genes involved in both these processes
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