

## Mouse Growth Differentiation Factor 11 (GDF11) ELISA Kit | GDF11 elisa kit

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CATALOG #  
**AAA20536**

REACTIVITY  
**Mouse**

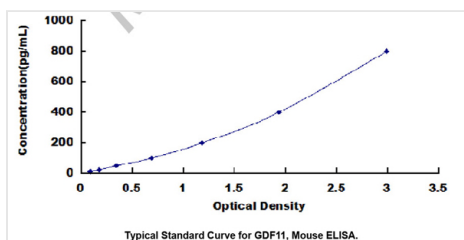
### PRODUCT SYNONYMS

Growth Differentiation Factor 11 (GDF11); Mouse Growth Differentiation Factor 11 (GDF11) ELISA Kit; BMP11; Bone morphogenetic protein 11; GDF11 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of GDF11. No significant cross-reactivity or interference between GDF11 and analogues was observed.                                                                                                                                                                                                                                                                                                                           |
| Sequence Length         | 407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Samples                 | Mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                            |
| Detection Range         | 12.5-800pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sensitivity             | < 5.1pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GDF11 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                               |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GDF11 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                             |
| Preparation and Storage | <p>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.</p> <p>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.</p> |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for GDF11 elisa kit | <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to GDF11. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to GDF11. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain GDF11, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of GDF11 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GDF11 in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.</p> |
| Product Categories/Family for GDF11 elisa kit   | Cytokine; Neuroscience; Ophthalmology & Otorhinolaryngology; Developmental science; Bone metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| References                                      | Growth differentiation factor-11 supplementation improves survival and promotes recovery after ischemic stroke in aged mice; Aging (Albany NY); 2020 May 4;12(9):8049-8066.; PMID: 32365331; Jacob Hudobenko; Department of Neurology, McGovern Medical School, University of Texas Health Science Center at Houston, Houston, TX 77030, USA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| NCBI GI #                        | 119617237                                       |
| NCBI GeneID                      | 10220                                           |
| UniProt Accession #              | O95390; Q9UID1; Q9UID2                          |
| Molecular Weight                 | 45,091 Da                                       |
| NCBI Official Full Name          | growth differentiation factor 11, isoform CRA_a |
| NCBI Official Synonym Full Names | growth differentiation factor 11                |
| NCBI Official Symbol             | GDF11                                           |
| NCBI Official Synonym Symbols    | BMP11; BMP-11                                   |
| NCBI Protein Information         | growth/differentiation factor 11                |
| UniProt Protein Name             | Growth/differentiation factor 11                |
| UniProt Gene Name                | <b>GDF11</b>                                    |
| UniProt Synonym Gene Names       | BMP11; GDF-11; BMP-11                           |
| UniProt Entry Name               | GDF11_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/mouse-elisa-kits/growth-differentiation-factor-11-gdf11/20536>