

**ARG83212**  
**Rabbit GDF5 ELISA Kit**Package: 96 wells  
Store at: 4°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | ARG83212 Rabbit GDF5 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rabbit GDF5 in Serum, Plasma and Cell culture supernatants.  |
| Tested Reactivity   | Rb   |
| Tested Application  | ELISA  |
| Specificity         | There is no detectable cross-reactivity with other relevant proteins.  |
| Target Name         | GDF5   |
| Conjugation         | HRP  |
| Conjugation Note    | Substrate: TMB and read at 450 nm.   |
| Sensitivity         | 15 pg/ml   |
| Detection Range     | 31.2 pg/ml - 2,000 pg/ml   |
| Sample Type         | Serum, Plasma and Cell culture supernatants  |
| Precision           | Intra-Assay CV: 7.2%<br>Inter-Assay CV: 8.2%   |
| Alternate Names     | LAP-4; CDMP-1; Cartilage-derived morphogenetic protein 1; SYM1B; GDF-5; Radotermin; BDA1C; OS5; LAP4; Bone morphogenetic protein 14; BMP-14; BMP14; Lipopolysaccharide-associated protein 4; LPS-associated protein 4; SYNS2; Growth/differentiation factor 5; CDMP1 |

### Application Instructions

|            |           |
|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

### Properties

|                     |  |
|---------------------|--|
| Form                | 96 well  |
| Storage instruction | Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

### Bioinformation

|                |   |
|----------------|---|
| Gene Symbol    | GDF5  |
| Gene Full Name | growth differentiation factor 5   |
| Background     | 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. Mutations in this gene are associated with acromesomelic dysplasia, Hunter-Thompson type; |

brachydactyly, type C; and chondrodysplasia, Grebe type. These associations confirm that the gene product plays a role in skeletal development. [provided by RefSeq, Jul 2008]

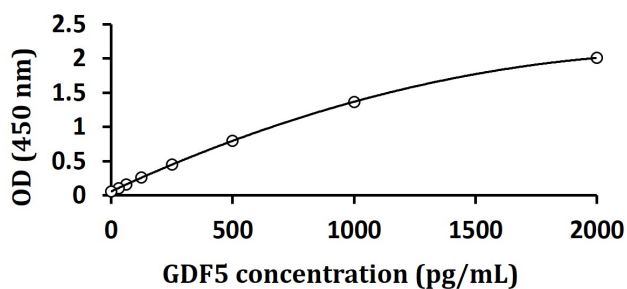
**Function** Growth factor involved in bone and cartilage formation. During cartilage development regulates differentiation of chondrogenic tissue through two pathways. Firstly, positively regulates differentiation of chondrogenic tissue through its binding of high affinity with BMPR1B and of less affinity with BMPR1A, leading to induction of SMAD1-SMAD5-SMAD8 complex phosphorylation and then SMAD protein signaling transduction. Secondly, negatively regulates chondrogenic differentiation through its interaction with NOG. Required to prevent excessive muscle loss upon denervation. This function requires SMAD4 and is mediated by phosphorylated SMAD1/5/8 (By similarity). Binds bacterial lipopolysaccharide (LPS) and mediates LPS-induced inflammatory response, including TNF secretion by monocytes. [UniProt]

**Highlight** Related products:  
[GDF5 ELISA Kits](#); [GDF5 recombinant proteins](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

**Cellular Localization** Secreted. Cell membrane. [UniProt]

## Images

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ARG83212 Rabbit GDF5 ELISA Kit standard curve image

ARG83212 Rabbit GDF5 ELISA Kit results of a typical standard run with optical density reading at 450 nm.

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