

Product datasheet

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ARG81651 Rat IGF2 ELISA Kit Package: 96 wells Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------------|----------------------|---|
| ARG81651-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG81651-002 | Standard | 2 X 10 ng/vial | 4°C |
| ARG81651-003 | Standard/Sample diluent | 30 ml (Ready to use) | 4°C |
| ARG81651-004 | Antibody conjugate concentrate (100X) | 1 vial (100 μl) | 4°C |
| ARG81651-005 | Antibody diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81651-006 | HRP-Streptavidin concentrate (100X) | 1 vial (100 μl) | 4°C |
| ARG81651-007 | HRP-Streptavidin diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81651-008 | 25X Wash buffer | 20 ml | 4°C |
| ARG81651-009 | TMB substrate | 10 ml (Ready to use) | 4°C (Protect from light) |
| ARG81651-010 | STOP solution | 10 ml (Ready to use) | 4°C |
| ARG81651-011 | Plate sealer | 4 strips | Room temperature |
| | | | |

Summary

| Product Description | ARG81651 Rat IGF2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat IGF2 in serum, plasma (heparin, EDTA) and cell culture supernatants. | |
|----------------------------------|---|--|
| Tested Reactivity | Rat | |
| Predict Reactivity | Hm | |
| Tested Application | ELISA | |
| Specificity | There is no detectable cross-reactivity with IGF1. | |
| Target Name | IGF2 | |
| Conjugation | HRP | |
| Conjugation Note | on Note Substrate: TMB and read at 450 nm. | |
| Sensitivity | | |
| Sample Type | | |
| Standard Range 62.5 - 4000 pg/ml | | |

Sample Volume 100 µl

Precision Intra-Assay CV: 4.6%; Inter-Assay CV: 6.1%

Alternate Names Somatomedin-A; Insulin-like growth factor II; IGF-II; PP9974; GRDF; C11orf43; T3M-11-derived growth

factor

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 IGF2

Gene Full Name insulin-like growth factor 2

Background This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in

development and growth. It is an imprinted gene, expressed only from the paternal allele, and epigenetic changes at this locus are associated with Wilms tumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants

encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]

Function The insulin-like growth factors possess growth-promoting activity. In vitro, they are potent mitogens for

cultured cells. IGF-II is influenced by placental lactogen and may play a role in fetal development.

Preptin undergoes glucose-mediated co-secretion with insulin, and acts as physiological amplifier of glucose-mediated insulin secretion. Exhibits osteogenic properties by increasing osteoblast mitogenic

activity through phosphoactivation of MAPK1 and MAPK3. [UniProt]

Highlight Related products:

IGF2 antibodies; IGF2 ELISA Kits; IGF2 recombinant proteins;

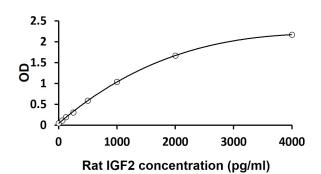
New ELISA data calculation tool: Simplify the ELISA analysis by GainData

PTM O-glycosylated with core 1 or possibly core 8 glycans. Thr-96 is a minor glycosylation site compared to

Thr-99.

Proteolytically processed by PCSK4, proIGF2 is cleaved at Arg-128 and Arg-92 to generate big-IGF2 and

mature IGF2. [UniProt]



ARG81651 Rat IGF2 ELISA Kit standard curve image

ARG81651 Rat IGF2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.