

## ARG80785 Human hCG beta (free) ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | ARG80785 Human hCG beta (free) ELISA Kit is an enzyme immunoassay kit for the quantification of free beta subunit of human chorionic gonadotropin (free $\beta$ -hCG) in serum and plasma (EDTA). |
| Tested Reactivity   | Hu  |
| Tested Application  | ELISA   |
| Target Name         | hCG beta (free)   |
| Conjugation         | HRP   |
| Conjugation Note    | Substrate: TMB and read at 450 nm   |
| Sensitivity         | 0.2 ng/ml   |
| Sample Type         | Serum and plasma (EDTA).  |
| Standard Range      | 10 - 200 ng/ml  |
| Sample Volume       | 50 $\mu$ l  |
| Alternate Names     | hCGB; CGB5; CGB7; CGB3; Chorionic gonadotrophin chain beta; CGB8; CG-beta; Choriogonadotropin subunit beta  |

### Application Instructions

|            |                                |
|------------|--------------------------------|
| Assay Time | 30, 30 min (37°C), 20 min (RT) |
|------------|--------------------------------|

### 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

|                |   |
|----------------|---|
| Database links | <a href="#">GeneID: 1082 Human</a><br><a href="#">Swiss-port # P01233 Human</a>   |
| Gene Symbol    | CGB   |
| Gene Full Name | chorionic gonadotropin, beta polypeptide  |
| Background     | Human Chorionic Gonadotropin (hCG) is a glycoprotein hormone normally produced by placenta during pregnancy. The hormone is present in blood and urine around seven to thirteen days following implantation of the fertilized ovum. Structurally intact hCG molecules consist of two non-covalently linked polypeptide subunits, the alpha and beta chain subunits. Measurement of intact hCG and of the alpha subunit of hCG appears to give similar results in blood and urine but not the levels of beta |

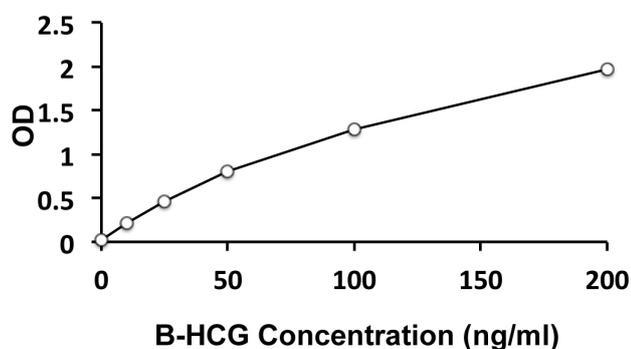
subunit.

The measurement of free  $\beta$ -HCG in the first trimester of pregnancy has been reported as a useful marker in antenatal screening for Down Syndrome and other fetal aneuploidies. Increased free  $\beta$ -HCG values in combination with maternal age, the measurement of PAPP-A and the ultrasonic determination of nuchal translucency (NT) in pregnancy weeks 11 to 14 may detect up to 90 % of pregnancies with Down syndrom

|                       |  |
|-----------------------|--|
| Function              | Stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy. [UniProt]   |
| Highlight             | Related products:<br><a href="#">hCG beta antibodies</a> ; <a href="#">hCG beta ELISA Kits</a> ; <a href="#">hCG beta Duos / Panels</a> ;<br>New ELISA data calculation tool:<br><a href="#">Simplify the ELISA analysis by GainData</a> |
| Research Area         | Cancer kit; Developmental Biology kit; Metabolism kit; Signaling Transduction kit  |
| Cellular Localization | Secreted. [UniProt]  |

## Images

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ARG80785 Human hCG beta (free) ELISA Kit standard curve example image

The representative standard curve of ARG80785 Human hCG beta (free) ELISA Kit. The standard curve is for demonstration only and cannot be used in place of data generations at the time of assay. The standard curve should be generated each time the assay is performed.