# ARG80846
# Human Placental Lactogen / hPL ELISA Kit

Package: 96 wells
Store at: 4°C

## Summary

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| Product Description | ARG80846 Human Placental Lactogen / hPL ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Placental Lactogen / hPL in serum. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Target Name | Placental Lactogen |
| Conjugation | HRP |
| Conjugation Note | TMB at 450 nm |
| Sample Type | Serum. |
| Standard Range | 1.25 - 20 mg/l |
| Sample Volume | 10 µl |
| Alternate Names | Choriomammotropin; hCS-A; Lactogen; Placental lactogen; CSA; Chorionic somatomammotropin hormone 1; hCS-1; CSMT; CS-1; PL |

## Properties

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| 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

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| Database links | GeneID: 1442 Human<br><br>Swiss-port # P0DML2 Human |
| Gene Symbol | CSH1 |
| Gene Full Name | chorionic somatomammotropin hormone 1 (placental lactogen) |
| Background | The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones and plays an important role in growth control. The gene is located at the growth hormone locus on chromosome 17 along with four other related genes in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. Although the five genes share a remarkably high degree of sequence identity, they are expressed selectively in different tissues. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed mainly in the placenta and utilizes multiple transcription initiation sites. Expression of the identical mature proteins for chorionic somatomammotropin hormones 1 and 2 is upregulated during development, although the ratio of 1 to 2 increases by term. Mutations in this gene result in placental lactogen deficiency and Silver-Russell syndrome. [provided by RefSeq, Jul 2008] |

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| Function | Produced only during pregnancy and is involved in stimulating lactation, fetal growth and metabolism. Does not interact with GHR but only activates PRLR through zinc-induced dimerization. [UniProt] |
| Highlight | Related products:<br>Placental Lactogen antibodies; Placental Lactogen ELISA Kits;<br>New ELISA data calculation tool:<br>Simplify the ELISA analysis by GainData |
| Research Area | Developmental Biology kit; Signaling Transduction kit |