

## Human Placenta lactogen (HPL) ELISA Kit

Catalog No: #EK11633



Package Size: #EK11633-1 48T #EK11633-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	Human Placenta lactogen (HPL) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CSA; CSMT; FLJ75407; PL; CS-1 choriomamotropin chorionic somatomamotropin A chorionic somatomamotropin hormone 1 hCS-A placental lactogen
Accession No.	P01243
Uniprot	P01243
Storage	<p>The stability of ELISA 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>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:2.5-160 ng/mL

Sensitivity:0.9 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate CSH1 in samples. An antibody specific for CSH1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCSH1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CSH1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CSH1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Human placental lactogen (HPL), also called human chorionic somatomamotropin, is a polypeptide placental hormone. Its structure and function is similar to that of human growth hormone. It modifies the metabolic state of the mother during pregnancy to facilitate the energy supply of the fetus. HPL is an anti-insulin.HPL consists of 190 amino acids that are linked by two disulfite bonds and is secreted by the syncytiotrophoblast during pregnancy. Its molecular weight is 22,125. Like human growth hormone HPL is encoded by genes on chromosome 17q22-24. Its biologic half-life is 15 minutes.HPL is only present during pregnancy with maternal serum levels rising in relation to the growth of the fetus and placenta. Maximum levels are reached near term, typically to 5C7 mg/ml. Higher levels are noted in patients with multiple gestation.

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Note: This product is for in vitro research use only