

Human Pregnancy-specific beta-1-glycoprotein 2 (PSG2) ELISA Kit



Catalog No: #EK8055

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Package Size: #EK8055-1 48T #EK8055-2 96T

Description

Product Name	Human Pregnancy-specific beta-1-glycoprotein 2 (PSG2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CEA; PSBG2; PSG1; PSGGB; OTTHUMP00000200195 OTTHUMP00000200196 OTTHUMP00000200197 Pregnancy-specific beta-1-glycoprotein-2 carcinoembryonic antigen SG8 pregnancy-specific beta-1 glycoprotein pregnan
Accession No.	P11465
Uniprot	P11465
GeneID	5670;
Storage	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. 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).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.063 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 PSG2 in samples. An antibody specific for PSG2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPSG2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PSG2 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 PSG2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The human pregnancy-specific glycoproteins (PSGs) are a family of proteins that are synthesized in large amounts by placental trophoblasts and released into the maternal circulation during pregnancy. Molecular cloning and analysis of several PSG genes has indicated that the PSGs form a subgroup of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily of genes.

Members of the CEA family consist of a single N domain, with structural similarity to the immunoglobulin variable domains, followed by a variable

number of immunoglobulin constant-like A and/or B domains. Most PSGs have an arg-gly-asp (RGD) motif, which has been shown to function as an adhesion recognition signal for several integrins, in the N-terminal domain .

Note: This product is for in vitro research use only