Pregnancy-Specific Beta-1-Glycoprotein 6 (PSG6) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Pregnancy-specific beta-1-glycoprotein 6 (PSG6), ELISA Kit
Full Product Name	Human Pregnancy-specific beta-1-glycoprotein 6 (PSG6) ELISA Kit
Product Gene Name	PSG6 elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma and other biological fluids
Detection Range	1.56 ng/mL - 100 ng/mL
Sensitivity	1 ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Human PSG6. No signi ficant cross-reactivity or interference between Human PSG6 and analogues was observed.
Preparation and Storage	Store at 2-8 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV (%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Intra-Assay: CV<8%
Molecular Weight	47,501 Da
OMIM	M33666 mRNA
3D Structure	ModBase 3D Structure for Q00889
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PSG6 elisa kit	Intended Uses: For the quantitative detection of Human Pregnancy-specific beta-1- glycoprotein 6 (PSG6) concentration in serum, plasma and other biological fluids. Principle of the Assay: This assay employs a two-site sandwich ELISA to quantitate PSG6 in Human serum, plasma. An antibody speci fic for PSG6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PSG6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PSG6 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 PSG6 bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of PSG6 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PSG6 purchase	MBS280491 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Pregnancy-specific beta-1-glycoprotein 6 (PSG6) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PSG6. The ELISA analytical biochemical technique of the MBS280491 kit is based on PSG6 antibody-PSG6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PSG6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PSG6. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSG6. It may not necessarily be applicable to this product.

NCBI GI #	73661174
NCBI GeneID	5675
NCBI Accession #	NP_001027020.1
UniProt Primary Accession #	Q00889
UniProt Secondary Accession #	O75244; Q15224; Q15235; Q549K1
UniProt Related Accession #	Q00889
GenBank Nucleotide #	NM_001031850.3
NCBI Official Full Name	pregnancy-specific beta-1-glycoprotein 6 isoform b
NCBI Official Synonym Full Names	pregnancy specific beta-1-glycoprotein 6
NCBI Official Symbol	PSG6
NCBI Official Synonym Symbols	PSG10; PSGGB; PSBG-6; PSBG-10; PSBG-12
UniProt Protein Name	Pregnancy-specific beta-1-glycoprotein 6
UniProt Synonym Protein Names	Pregnancy-specific beta-1-glycoprotein 10; PS-beta-G-10; PSBG-10; Pregnancy-specific glycoprotein 10; Pregnancy-specific beta-1-glycoprotein 12; PS-beta-G-12; PSBG-12; Pregnancy-specific glycoprotein 12
Protein Family	Pregnancy-specific beta-1-glycoprotein
UniProt Gene Name	PSG6
UniProt Synonym Gene Names	CGM3; PSG10; PSG12; PSGGB; PS-beta-G-6; PSBG-6; Pregnancy-specific glycoprotein 6; PS-beta-G-10; PSBG-10; Pregnancy-specific glycoprotein 10; PS-beta-G-12; PSBG-12; Pregnancy-specific glycoprotein 12
NCBI Protein Information	pregnancy-specific beta-1-glycoprotein 6
NCBI Summary for PSG6	This gene is a member of the pregnancy-specific glycoprotein (PSG) gene family. The PSG genes are a subgroup of the carcinoembryonic antigen (CEA) family of immunoglobulin-like genes, and are found in a gene cluster at 19q13.1-q13.2 telomeric to another cluster of CEA-related genes. The PSG genes are expressed by placental trophoblasts and released into the maternal circulation during pregnancy, and are thought to be essential for maintenance of normal pregnancy. The protein encoded by this gene contains the Arg-Gly-Asp tripeptide associated with cellular adhesion and recognition. Alternative splicing results in multiple transcript variants and protein isoforms. [provided by RefSeq, Jul 2012]
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