

Product datasheet for DM1211

Pregnancy Specific Glycoprotein (PSG) Mouse Monoclonal Antibody [Clone ID: BAP3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BAP3
Applications:	FC, IF, IHC
Recommended Dilution:	Flow cytometry: 1.2 µg/10e6 cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Immunisation with extracted protein of human PSG
Specificity:	This antibody reacts to human Pregnancy-specific Glycoproteins. The epitope is within B2 domain, which is present in most PSG. It has been described to react with at least PSG1, PSG3, PSG4, PSG6, PSG7 and PSG8 (doi.org/10.3390/cells8111369).
Formulation:	Phosphate buffered saline, pH 7.2 State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2–8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	pregnancy specific beta-1-glycoprotein 1



Database Link: [Entrez Gene 5669 Human](#)
[PI1464](#)

Background: The human pregnancy-specific glycoprotein family (PSG) is a group of closely related secreted glycoproteins which are highly expressed in placental syncytiotrophoblast cells of fetal origin (1). PSG are commonly expressed in tumors of trophoblast origin (hydatidiform mole, choriocarcinoma). They represent the most abundant fetal protein in the maternal blood at term. Together with the carcinoembryonic antigen (CEA)-related cell adhesion molecule (CEACAM) genes, the human PSG genes form the CEACAM gene family (2). PSG stimulate secretion of TH2-type cytokines from monocytes. CD9 was shown to represent the monocyte receptor for murine PSG17 (3). PSG are thought to modulate the maternal immune system during pregnancy thus protecting the semiallotypic fetus from rejection (4).

Synonyms: Pregnancy-specific beta-1-glycoprotein 1, PS-beta-G-1, PSBG-1, PSBG1, BIG1, PSGGA, PSG95, Pregnancy-specific beta-1 glycoprotein C/D, PS-beta-C/D

Product images:

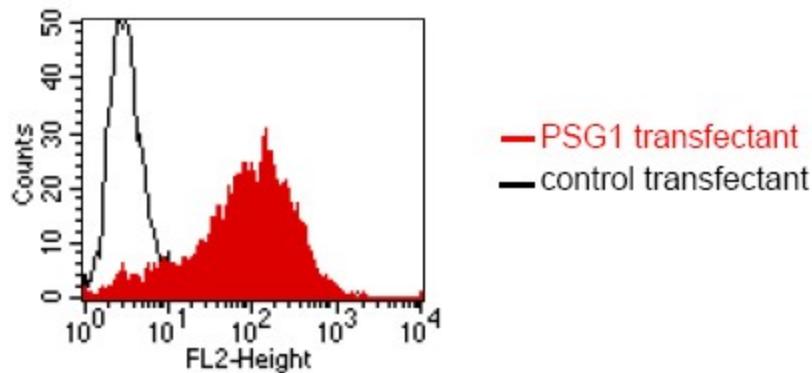


Fig.1: FACS analysis of CHO cells using BAP3. CHO cells were transiently transfected with an expression vector encoding a recombinant, transmembrane-anchored form of PSG1 (red curve) or an irrelevant protein (control transfectant: black curve). Binding of BAP3 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with PSG1 transfected cells.

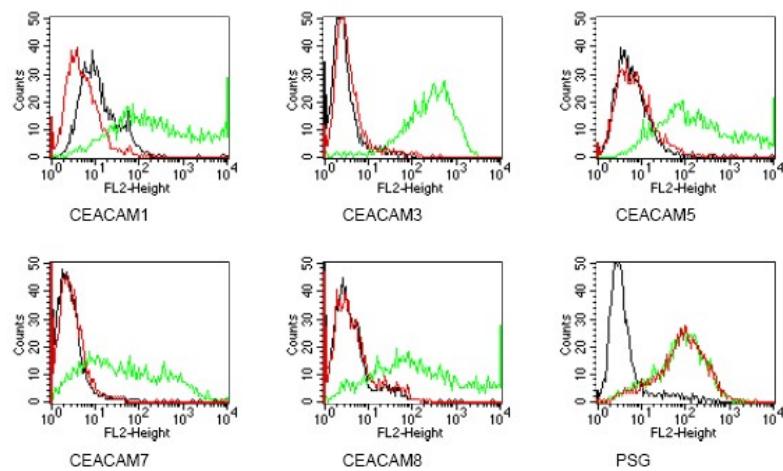


Fig2: Members of the CEA family were expressed on BOSC cells after transient transfection with expression vectors containing either the cDNA of CEACAM1, 3, 5, 7 or 8. Recognition of CEACAM3 and of arecombinant transmembrane-anchored PSG1 fusion protein was tested on stably transfected HeLa cells. Expression of the constructs was confirmed with monoclonal antibodies known to recognise the corresponding proteins (CEACAM1, 3 and 5: D14HD11; CEACAM7: CAC2; CEACAM8: 80H3; PSG: Briefed BAP3 was tested on all CEACAM transfectants. A positive signal was only obtained with PSG expressing cells (red curves).