

GPA34/VSIG1 Protein, Human, Recombinant (His)

General Information

Synonyms:	MGC44287,1700062D20Rik;Glycoprotein A34;VSIG1;Gpa34;dj889N15.1
Protein Construction:	Val22-Glu232
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q86XK7-1
Molecular Weight:	24 kDa (predicted). Due to glycosylation, the protein migrates to 48-55 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human GPA34, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-GPA34 Antibody, hFc Tag with the EC50 of 4.4 ng/mL determined by ELISA.(QC Test)
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

VSIG1, a cell adhesion protein of the immunoglobulin superfamily, is preferentially expressed in stomach, testis, and certain gastric, esophageal and ovarian cancers. Here, we describe the expression patterns of three alternatively spliced isoforms of mouse Vsig1 during pre- and postnatal development of stomach and potential function of Vsig1 in differentiation of gastric epithelia. VSIG1 is required for the establishment of glandular versus

squamous epithelia in the stomach.

Reference

Oidovsambuu O, et al. Adhesion protein VSIG1 is required for the proper differentiation of glandular gastric epithelia. PLoS One. 2011;6(10):e25908. doi: 10.1371/journal.pone.0025908. Epub 2011 Oct 4. PMID: 21991385; PMCID: PMC3186807.

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