



Biotinylated Anti-human VSIG1 Antibody

ORDERING INFORMATION

Catalog Number: BAF4818

Lot Number: CAZO01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human VSIG1
extracellular domain

Immunogen: NS0-derived rhVSIG1
extracellular domain

Ig Type: sheep IgG

Application: Western blot

Background

VSIG1 (V-set and Ig domain-containing protein 1; also Glycoprotein A34) is a variably glycosylated 55 - 70 kDa member of the JAM family of proteins. It has restricted expression, being limited to testicular germ cells plus pancreatic duct and gastric epithelium. VSIG1 is likely to serve as an adhesion molecule. Mature human VSIG1 is 366 amino acids (aa) in length. It is a type I transmembrane glycoprotein that contains a 211 aa extracellular domain (ECD). The ECD contains one V-type (aa 22 - 132) and one C2-type Ig-like domain (aa 140 - 227). Over aa 22 - 234, human VSIG1 is 83% aa identical to both mouse and canine VSIG1. At least one potential splice variant exists in human. It shows an insertion of 36 aa after Ser72 and a deletion of aa 133 - 387.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant human VSIG1 extracellular domain (rhVSIG1; aa 22 - 234; Accession # Q86XK7). Human VSIG1 specific IgG was purified by human VSIG1 affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human VSIG1 Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human VSIG1. The detection limit for rhVSIG1 is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 10% cross-reactivity with rhVSIG2, rhVSIG3, rhVSIG4, and rmVSIG1.

Optimal dilutions should be determined by each laboratory for each application.