

## ORDERING INFORMATION

**Catalog Number:** AF5324

**Lot Number:** CBZF01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

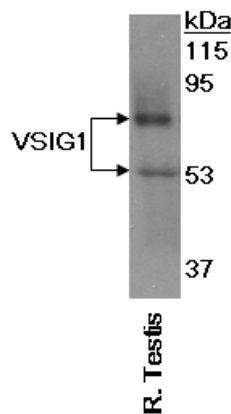
**Reconstitution:** sterile PBS

**Specificity:** mouse and rat VSIG1 extracellular domain

**Immunogen:** NS0-derived rmVSIG1 extracellular domain

**Ig Type:** goat IgG

**Applications:** Western blot  
Direct ELISA



### Detection of VSIG1 with AF5324.

Tissue lysates were resolved by SDS-PAGE, transferred to an Immobilon-P membrane and immunoblotted with 1.0 µg/mL goat anti-m/rVSIG1.

## Background

VSIG1 (V-set and Ig domain-containing protein 1; also Glycoprotein 34 and Cell surface antigen 33) is a 55 - 70 kDa member of the JAM family of Ig-Superfamily proteins. It shows expression on gastric epithelium and testicular germ cells and likely participates in cell adhesion. Mouse VSIG1 precursor is 407 amino acids (aa) in length. It is a type I transmembrane glycoprotein that contains a 211 aa extracellular domain (ECD) (aa 23 - 234) and a 152 aa cytoplasmic region. The ECD contains one V-type (aa 23 - 134) and one C2-type Ig-like domain (aa 145 - 229). Over aa 23 - 234, mouse VSIG1 is 94% and 81% aa identical to rat and human VSIG1, respectively. There is one potential alternate start site at Met108.

## Preparation

Produced in goats immunized with purified, NS0-derived, recombinant mouse VSIG1 extracellular domain (rmVSIG1; aa 23 - 234; Accession # BAE35812). VSIG1 specific IgG was purified by mouse VSIG1 affinity chromatography.

## Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

## Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/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 its ability to recognize mouse and rat VSIG1 in direct ELISAs and Western blots. In direct ELISAs, this antibody shows approximately 5% cross-reactivity with rhVSIG1, and less than 1% cross-reactivity with rmVSIG2, rmVSIG3, rmVSIG4 and rhVSIG3.

## Applications

**Western blot** - An antibody concentration of 1.0 µg/mL is recommended.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect VSIG1. The detection limit for rmVSIG1 is approximately 0.2 ng/well.

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