Human/Mouse VSIG3 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4915

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse VSIG3 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) VSIG1, rhVSIG2, and rhVSIG4 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human VSIG3 Leu23-Gly245 Accession # NP_001015887
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

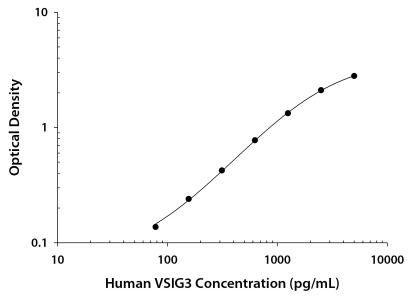
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human and mouse VSIG3
ELISA	This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Human VSIG3 Monoclonal Antibody(Catalog # MAB9229). *This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human VSIG3 DuoSet ELISA Kit (Catalog # DY9229-05) for convenient development of a sandwich ELISA.*	

DATA

ELISA



Human VSIG3 ELISA Standard Curve. Recombinant Human VSIG3 protein was serially diluted 2-fold and captured by Mouse Anti-Human VSIG3 Monoclonal Antibody (Catalog # MAB9229) coated on a Clear Polystyrene Microplate (Catalog # DY990). Sheep Anti-Human/Mouse VSIG3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4915) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

VSIG3 (V-set and Ig domain-containing protein 3; also BT-IgSF and IGSF11) is a 52 kDa brain and testis-specific protein that belongs to the IGSF11 family of proteins. It is expressed by neurons, astrocytes and oligodendroglia. VSIG3 is an adhesion molecule that forms Ca-independent homophilic interactions in trans. Human VSIG3 is 413 amino acids (aa) in length. It is a type I transmembrane glycoprotein that contains a 219 aa extracellular domain (ECD). The ECD contains one V-type (aa 23-136) and one C2-type Ig-like domain (aa 144-234). Over aa 23-245, human VSIG3 is 94% aa identical to mouse VSIG3. Two potential splice variants exist in human. Both exhibit a 16 aa substitution for the first 17 aa of the signal sequence, and one contains an additional single Ala substitution for aa 211-235.

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