Human VSIG2 Antibody

Monoclonal Mouse IgG_1 Clone # 541522

Catalog Number: MAB51771

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VSIG2 in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 541522
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human VSIG2 Val24-Ala243 Accession # Q961Q7-1
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.

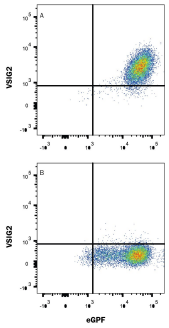
APPLICATIONS

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
Flow Cytometry	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of VSIG2 in HEK293 Human Cell Line Transfected with Human VSIG2 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) human VSIG2 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human VSIG2 Monoclonal Antibody (Catalog # MAB51771) followed by APC-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB002). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

V-set and immunoglobulin domain-containing protein 2 (VSIG2), also known as cortical thymocyte-like protein (CT-like protein), is a member of the immunoglobulin superfamily (Igsf) that was originally described in *Xenopus* and was referred to as cortical thymocyte marker in *Xenopus*, or CTX. The clone isolated from the human genomic library was called CTH (1). Mature human VSIG2 is a single-pass type I transmembrane protein with a 220 amino acid (aa) extracellular domain (ECD) that contains one C2-type and one V-type immunoglobulin-like domains, and a 63 aa cytoplasmic region linked to the ECD by a short 21 aa transmembrane domain. Human VSIG2 ECD shares 85% and 86% aa sequence identity with mouse and rat VSIG2, respectively. VSIG2 is structurally related to the B7 family of immune regulatory proteins. Our studies at R&D Systems show that VSIG2 inhibits T cell activation, including IL17 and interferon gamma production.

References:

1. Chrétien, I. *et al.* (1998) Eur. J. Immunol. **28**:4094.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449