

VSIG4 elisa pair set

VSIG4 Matched ELISA Antibody Pair Set, Human

CATALOG #
AAA257391

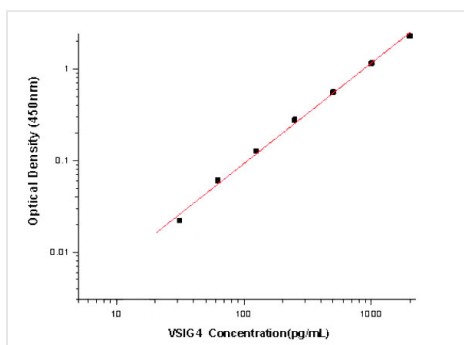
PRODUCT SYNONYMS

VSIG4; VSIG4 Matched ELISA Antibody Pair Set; Human; Human VSIG4 ELISA Pair Set; V-set and immunoglobulin domain containing 4; CRlg Matched ELISA Antibody Pair Set; Z39IG Matched ELISA Antibody Pair Set; VSIG4 elisa pair set

PRODUCT SPECIFICATIONS

Specificity	Quantitative determination of Human VSIG4
Assay Type	Quantitative Sandwich
Sensitivity	31.25 pg/ml
Materials Provided	1. Capture Antibody 1 mg/mL of rabbit anti-VSIG4 monoclonal antibody (in PBS, pH 7.4). Dilute to a working concentration of 2ug/mL in PBS before coating. 2. Detection Antibody 0.25 mg/mL rabbit anti-VSIG4 monoclonal antibody conjugated to horseradish-peroxidase (HRP) (in PBS, 50 % HRP-protector, pH 7.4). Dilute to working concentration of 0.25ug/mL in detection antibody dilution buffer before use. 3. Standard Each vial contains 100 ng of recombinant VSIG4. Reconstitute with 1 mL detection antibody dilution buffer. After reconstitution, store at -20 degree C to -80 degree C in a manual defrost freezer. A seven-point standard curve using 2-fold serial dilutions in sample dilution buffer, and a high standard of 2ng/mL is recommended.
Preparation and Storage	Capture Antibody: Aliquot and store at -20 degree C to -80 degree C for up to 6 months from date of receipt. Avoid repeated freeze-thaw cycles. Detection Antibody: Store at 4 degree C and protect it from prolonged exposure to light for up to 6 months from date of receipt. DO NOT FREEZE! Standard: Store lyophilized standard at -20 degree C to -80 degree C for up to 6 months from date of receipt. Aliquot and store the reconstituted Standard at -80 degree C for up to 1 month. Avoid repeated freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VSIG4 elisa pair set	Background: VSIG4 (V-set and immunoglobulin domain containing 4), also known as complement receptor of the immunoglobulin superfamily (CRlg) and Z39lg, is a type I transmembrane glycoprotein. It is a B7 familyrelated protein and an Ig superfamily member. In contrast to the B7 family members which contain two IgG domains, VSIG4 contains one complete V-type I g domain and a truncated C-type I g domain. VSIG4 is exclusively expressed on tissue resident macrophages and binds to multimers of C3b and iC3b that are covalently attached to particle surfaces. No VSIG4 expression appears to be present in T and B cells. VSIG4 functions as a negative regulator of T cell activation, and may be involved in the maintenance of peripheral T cell tolerance, and is also identified as a potent suppressor of established inflammation. Mouse VSIG4 is synthesized as a 28 amino acid precursor that contains a signal sequence, an V-type I g domain (aa 36-115), one potential N-linked glycosylation site, and a single transmembrane domain. The V-type I g domain of mouse VSIG4 shares 86% and 8% aa sequence identity with the V-type I g domains of rat and human VSIG4, respectively. Principle of the Assay: The ELISA Pair Set is a solid phase sandwich ELISA (Enzyme-Linked Immunosorbent Assay). It utilizes a monoclonal antibody specific for Human VSIG4 coated on a 96-well plate. Standards and samples are added to the wells, and any Human VSIG4 present binds to the immobilized antibody. The wells are washed and a horseradish peroxidase conjugated rabbit anti-Human VSIG4 monoclonal antibody is then added, producing an antibody-antigen-antibody "sandwich". The wells are again washed and TMB substrate solution is loaded, which produces color in proportion to the amount of Human VSIG4 present in the sample. To end the enzyme reaction, the stop solution is added and absorbances of the microwell are read at 450 nm. Intended Uses: The Human VSIG4 ELISA Pair Set is for the quantitative determination of Human VSIG4. This ELISA Pair Set contains the basic components required for the development of sandwich ELISAs.
References	Vogt, L. et al., 2006, J Clin Invest.116: 2817-2826. Helmy, K. et al., 2006, Cell. 124:915-927. Wiesmann, C. et al., 2006, Nature. 444:217-220. Zang, X. et al., 2006, J Clin Invest. 116: 2590-2593. Katschke, KJ. et al., 2007, J. Exp. Med. 204:1319-1325. He, JQ. et al., 2008, Mol Immunol. 45: 4041-4047.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.