VSIG4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VSIG4, Polyclonal Antibody
Full Product Name	Anti-VSIG4 Antibody, Rabbit Polyclonal
Product Gene Name	anti-VSIG4 antibody
Product Synonym Names	VSIG4 Antibody, Rabbit PAb, Antigen Affinity Purified; V-set and immunoglobulin domain containing 4; Anti-A530061A11 Antibody; Anti-BC025105 Antibody; Anti-CRIg Antibody; Anti-Z39IG Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Mouse VSIG4
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Immunogen	Recombinant Mouse VSIG4 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse VSIG4 (rM VSIG4). VSIG4 specific IgG was purified by Mouse VSIG4 affinity chromatography.
Applications Tested/Suitable for anti-VSIG4 antibody	ELISA (EIA)
Application Notes for anti-VSIG4 antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-VSIG4 antibody	VSIG4 (V-set and immunoglobulin domain containing 4), also known as complement receptor of the immunoglobulin superfamily (CRIg) and Z39Ig, is a type I transmembrane glycoprotein. It is a B7 family-related 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, a 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.
Product References and Citations for anti-VSIG4 antibody	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.
Other Notes	Small volumes of anti-VSIG4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for VSIG4 purchase	MBS8111164 is an antibody targeting VSIG4. Also known as Anti-VSIG4 Antibody, Rabbit Polyclonal. Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VSIG4. It may not necessarily be applicable to this product.

NCBI GI #	29244314
NCBI GeneID	278180
NCBI Accession #	NP_808457.1
GenBank Nucleotide #	NM_177789.4
NCBI Official Full Name	V-set and immunoglobulin domain-containing protein 4
NCBI Official Synonym Full Names	V-set and immunoglobulin domain containing 4
NCBI Official Symbol	Vsig4
NCBI Official Synonym Symbols	CRIg; Z39IG; BC025105; A530061A11
Protein Family	V-set and immunoglobulin domain-containing protein
NCBI Protein Information	V-set and immunoglobulin domain-containing protein 4
Research Articles on VSIG4	**1.** plays a negative role in helper T cell-dependent antibody isotype switching
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