

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human VSIG8 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 961840
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human embryonic kidney cell line HEK293-derived transfected with human VSIG8 Met1-Gly263 Accession # Q5VU13
<b>Formulation</b>	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.

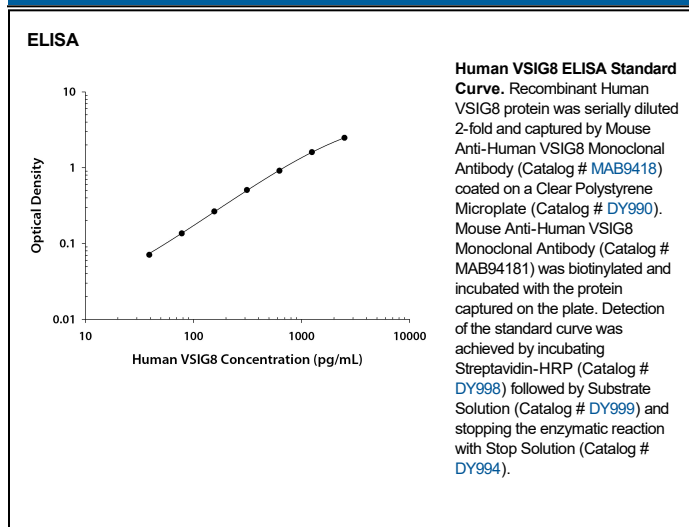
**APPLICATIONS**

**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.

**ELISA** This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Human VSIG8 Monoclonal Antibody (Catalog # MAB9418).

*This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human VSIG8 DuoSet ELISA Kit (Catalog # DY9200-05) for convenient development of a sandwich ELISA.*

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

VSIG8 (V-set and immunoglobulin domain containing 8), also known as C1orf204, is an approximately 45 kDa type I transmembrane protein of the B7 family within the Ig superfamily. Mature human VSIG8 consists of a 242 amino acid (aa) extracellular domain (ECD) containing two V-type Ig-like domains, a 21 aa transmembrane domain, and a 130 aa cytoplasmic domain. Within the ECD, human VSIG8 shares 88% and 89% aa identity with mouse and rat VSIG8, respectively. Alternative splicing generates a long isoform of human VSIG8 with a substitution in the cytoplasmic juxtamembrane region and a 124 aa extension at the C-terminus. VSIG8 was identified from proteomic analysis of human hair shafts (1, 2). It is expressed in the hair follicle and shaft, superficial layers of the nail matrix, and superficial layers of oral epithelium (3). R&D Systems in-house testing indicates that VSIG8 inhibits the production of IL-2 by activated T cells.

**References:**

1. Rice, R.H. *et al.* (2010) J. Proteome Res. **9**:6752.
2. Lee, Y.J. *et al.* (2006) Mol. Cell. Proteomics **5**:789.
3. Rice, R.H. *et al.* (2011) J. Invest. Dermatol. **131**:1936.