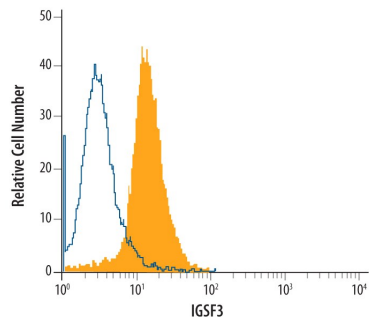
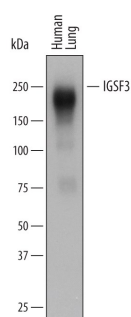


DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IGSF3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human (rh) IGSF4B, rhIGSF4C, and rhIGSF8 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human IGSF3 Gln20-Ala1125 Accession # AAI10652
<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 as a 0.2 µm filtered solution in PBS.

APPLICATIONS	
<b>Please Note:</b> Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.	
	<b>Recommended Concentration</b> <b>Sample</b>
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells      See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.
<b>Western Blot</b>	Human lung tissue under non-reducing conditions only

DATA	
<p><b>Flow Cytometry</b></p>  <p><b>Detection of IGSF3 in A549 Human Cell Line by Flow Cytometry.</b> A549 human lung carcinoma cell line was stained with Sheep Anti-Human IGSF3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4788, filled histogram) or control antibody (Catalog # 5-001-A, open histogram), followed by NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # NL010).</p>	<p><b>Western Blot</b></p>  <p><b>Detection of Human IGSF3 by Western Blot.</b> Western blot shows lysates of human lung tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human IGSF3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4788) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for IGSF3 at approximately 200 kDa (as indicated). This experiment was conducted under non-reducing conditions and using Immunoblot Buffer Group 1.</p>

PREPARATION AND STORAGE	
<b>Reconstitution</b>	Reconstitute at 0.2 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**

IGSF3 (Immunoglobulin superfamily member 3; also EWI-3) is a 133 kDa (predicted) member of the EWI subfamily of the Ig-Superfamily of molecules. It is reported to be widely expressed, with concentration in placenta and lung. Human IGSF3 an 1194 amino acid (aa) type I transmembrane protein that contains a 19 aa signal sequence followed by an 1175 aa mature region (aa 20-1194) (SwissProt # O75054). The molecule's extracellular region is 1105 aa in length (aa 20-1124), and contains eight C2-type Ig-like domains (aa 22-1097). This region also possesses at least two utilized phosphorylation sites at Thr617 and Ser625, plus an EWI motif in the second Ig-like domain. IGSF3 likely exists as a disulfide-linked homodimer. There are two potential isoform variants. One contains a 20 aa insertion after Pro406, while another shows the same insert coupled to a premature truncation after Pro833. GenBank Accession # AAI10652 is identical to the SwissProt sequence above save for a double Glu substitution for Asp1020 in the eighth Ig-like domain. Over aa 20-1125, human IGSF3 shares 92% aa identity with mouse IGSF3.