

DESCRIPTION

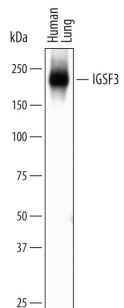
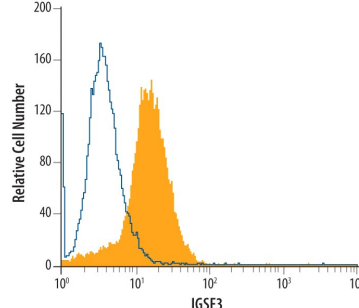
Species Reactivity	Human
Specificity	Detects human IGSF3 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) IGSF4, 4B, 4C, 4D or 8 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 503621
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IGSF3 Gln20-Ala1125 Accession # AAI44133
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 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	2.5 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.	
Western Blot	Human lung tissue under non-reducing conditions only	

DATA

<p>Western Blot</p>  <p>Detection of Human IGSF3 by Western Blot. Western blot shows lysates of human lung tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human IGSF3 Monoclonal Antibody (Catalog # MAB4788) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). 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>	<p>Flow Cytometry</p>  <p>Detection of IGSF3 in A549 Human Cell Line by Flow Cytometry. A549 human lung carcinoma cell line was stained with Mouse Anti-Human IGSF3 Monoclonal Antibody (Catalog # MAB4788, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab)₂ Secondary Antibody (Catalog # F0102B).</p>
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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. <ul style="list-style-type: none"> ● 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

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 a 1175 aa mature region (aa 20-1194). 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. Over aa 20-1125, human IGSF3 shares 92% aa identity with mouse IGSF3.