

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IGSF3 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) IGSF4, 4B, 4C, 4D or 8 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 503621
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human IGSF3 Gln20-Ala1125 Accession # AAI44133
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	A549 human lung carcinoma cell line

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</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 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.

#### PRODUCT SPECIFIC NOTICES

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