

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IGFLR1 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 905338
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human embryonic kidney cell line HEK293-derived recombinant human IGFLR1 Met1-Pro163 Accession # Q9H665
<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.  *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	Human peripheral blood lymphocytes

## 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. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> • 12 months, 2 to 8 °C under sterile conditions after opening.

## BACKGROUND

Insulin Growth Factor-like Family Receptor 1 (IGFLR1) is a 355 amino acid (aa) type 1a transmembrane protein that was identified in a screen for binding partners of human IGFL-1 (1). Mature human IGFLR1 consists of an extracellular domain (ECD) with two putative cysteine-rich domains (CRDs), a transmembrane region, and a cytoplasmic domain (1). Its structure has similarities to TNF receptor family members (1). Over the first 163 aa, human IGFLR1 shares 61% and 59% aa sequence identity with mouse and rat IGFLR1, respectively. In mice, IGFLR1 is expressed primarily on T cells and, similar to the human proteins, mouse IGFLR1 binds the mouse IGFL protein (1). Human IGFL-1 expression is enhanced by TNF-α treatment and was shown to be up-regulated in human psoriatic skin samples, suggesting that IGFLR1 may have a role during skin inflammation (1).

### References:

1. Lobito, A.A. *et al.* (2011) J. Biol. Chem. **286**:18969.

## PRODUCT SPECIFIC NOTICES

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