

DESCRIPTION

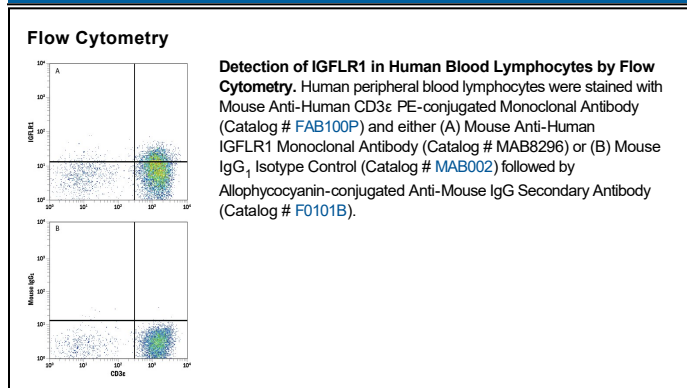
Species Reactivity	Human
Specificity	Detects human IGFLR1 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 905338
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant human IGFLR1 Met1-Pro163 Accession # Q9H665
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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 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.

	Recommended Concentration	Sample
Flow Cytometry	0.25 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.	
Blockade of Receptor-ligand Interaction	In a functional ELISA, 0.05-0.3 µg/mL of this antibody will block 50% of the binding of 10 ng/mL of rhIGFL-1 to immobilized rhIGFLR1 coated at 100 ng/mL (100 µL/well). At 10 µg/mL, this antibody will block >90% of the binding.	

DATA



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

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.