Mouse IGSF2/CD101 APC-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 307707

Catalog Number: FAB3368A

100 TESTS

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IGSF2/CD101 in flow cytometry.
Source	Monoclonal Rat IgG_{2A} Clone # 307707
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse IGSF2/CD101 Gln21-Tyr1033 Accession # A8E0Y8
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied 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.

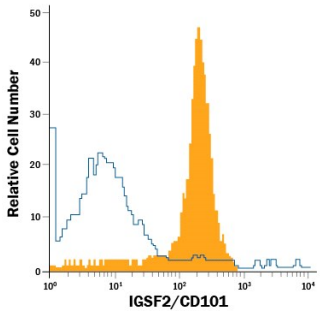
APPLICATIONS

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.*

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of IGSF2/CD101 in Mouse GR-1 Positive Blood Cells by Flow Cytometry. Mouse GR-1 positive blood cells were stained with Rat Anti-Mouse IGSF2/CD101 APC-conjugated Monoclonal Antibody (Catalog # FAB3368A, filled histogram) or isotype control antibody (Catalog # IC006A, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

IGSF2, also known as CD101 and V7 is a 135-140 kDa member of the EWI family, Ig superfamily of molecules. It is a type I transmembrane glycoprotein that is expressed on dermal dendritic cells (DCs), granulocytes, monocytes, activated T cells, and Tregs. IGSF2 ligation is involved in T cell activation. On dermal DCs, CD101 ligation induces IL-10 expression, and on activated T cells, CD101 ligation blocks IL-2 expression, two effects that downregulate T cell activity. Notably, in mouse, CD101 expression on $CD62L^{++}$ Tregs identifies a population of cells that have potent suppressor activity. The extracellular domain of mouse shares 86% and 69% amino acid sequence identity with the ECD of rat and human CD101, respectively.

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