

## DESCRIPTION

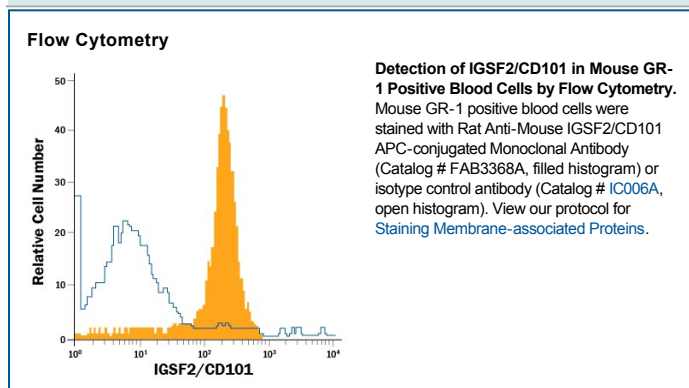
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse IGSF2/CD101 in flow cytometry.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 307707
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse IGSF2/CD101 Gln21-Tyr1033 Accession # A8E0Y8
<b>Conjugate</b>	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
<b>Formulation</b>	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
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA



## 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

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<sup>++</sup> 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.