Technical Data Sheet

Alexa Fluor® 647 Rat Anti-Mouse CD101 (Igsf2)

Product Information

Material Number: 564473
Alternate Name: Igsf2; EWI-101; Gm1016; Gm734
Size: 50 tests
Vol. per Test: 5 µl
Clone: 307707
Immunogen: Mouse CD101 Recombinant Protein
Isotype: Rat (LEW) IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 307707 monoclonal antibody specifically binds to CD101 which is also known as Igsf2 (Immunoglobulin superfamily member 2). CD101 is a type I transmembrane glycoprotein that belongs to the EWI (sharing a conserved glutamine-tryptophan-isoleucine motif) family within the Ig superfamily. CD101 is expressed on monocytes, granulocytes, dendritic cells, Langerhans cells and activated T cells. CD101 reportedly plays a role in the regulation of T cell activation. CD101 was found to be expressed on a subset of CD25+Foxp3+ T regulatory cells that showed higher suppressive properties in vitro and in vivo. Polymorphisms in Cd101 are associated with type 1 diabetes susceptibility.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application
Flow cytometry Routinely Tested

Suggested Companion Products

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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>557690</td>
<td>Alexa Fluor® 647 Rat IgG2a, κ Isotype Control</td>
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564473 Rev. 1
Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
3. An isotype control should be used at the same concentration as the antibody of interest.
4. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
5. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
6. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
7. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
8. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
9. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References