Alexa Fluor® 647 Mouse Anti-Human CLEC5A (MDL-1)

Product Information

Material Number: 566585
Alternate Name: CLEC5A; CLECSF5; MDL1; MDL-1; Myeloid DAP12-associating Lectin 1
Size: 25 µg
Concentration: 0.2 mg/ml
Clone: 283834
Immunogen: Human
Isotype: Mouse IgG2b, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Monoclonal antibody 283834 specifically recognizes C-type lectin domain family 5, member A (CLEC5A) which is also known as C-type lectin superfamily member 5 (CLECSF5) or Myeloid DAP12-associating Lectin-1 (MDL-1). CLEC5A (MDL-1) is a ~40 kDa type II transmembrane glycoprotein that is expressed on immature myeloid cells, monocytes, macrophages, dendritic cells, and neutrophils. Clec5A (MDL-1) has a charged lysine in its transmembrane region that allows it to associate with DAP12 (aka, TYROBP) and transduce an activating signal in myeloid cells. Clec5A (MDL-1) regulates inflammatory responses during autoimmune arthritis and upon binding to Dengue viruses. The 283834 antibody does not crossreact with recombinant mouse Clec5a (MDL-1) protein.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.
Application Notes

Flow cytometry

Routinely Tested

Suggested Companion Products

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
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<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
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<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<td>565378</td>
<td>Alexa Fluor® 647 Mouse IgG2b, κ Isotype Control</td>
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<td>Human BD Fc Block™</td>
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<td>Fc1.3216</td>
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<tr>
<td>564219</td>
<td>Human BD Fc Block™</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. 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.
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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References

Bakker AB, Baker E, Sutherland GR, Phillips JH, Lanier LL. Myeloid DAP12-associating lectin (MDL)-1 is a cell surface receptor involved in the activation of myeloid cells. Proc Natl Acad Sci USA. 1999; 96(17):9792-6. (Biology)


