Alexa Fluor® 647 Mouse Anti-Human MNDA

Product Information

Material Number: 566582
Alternate Name: MNDA; Myeloid cell nuclear differentiation antigen; PYHIN3
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: 253 (also known as 253A)
Immunogen: Human MNDA
Isotype: Mouse (BALB/c) IgG1, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The monoclonal antibody 253 specifically recognizes Myeloid cell nuclear differentiation antigen (MNDA) that is encoded by MNDA which belongs to the Pyrin and Hin domain gene family. MNDA functions as a transcriptional activator or repressor in cells of the myeloid lineage including cells from the promyelocyte stage onwards to granulocytes, monocytes and macrophages. Expression of this transcription factor is upregulated by monocytes in response to Interferon alpha (IFN-α) stimulation. MNDA may also be lowly expressed in a subset of B cells and by cells in some nodal marginal zone lymphomas (NMZL) and chronic lymphocytic leukemias (CLL).

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

Application

<table>
<thead>
<tr>
<th>Intracellular staining (flow cytometry)</th>
<th>Routinely Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunofluorescence</td>
<td>Tested During Development</td>
</tr>
</tbody>
</table>
### Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>557732</td>
<td>Alexa Fluor® 647 Mouse IgG1 κ Isotype Control</td>
<td>100 Tests</td>
<td>MOPC-21</td>
</tr>
<tr>
<td>563239</td>
<td>Transcription Factor Phospho Buffer Set</td>
<td>100 Tests</td>
<td>(none)</td>
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<tr>
<td>562725</td>
<td>Transcription Factor Buffer Set</td>
<td>25 Tests</td>
<td>(none)</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
<td>500 mL</td>
<td>(none)</td>
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<tr>
<td>550524</td>
<td>Retrievalagen A (pH 6.0)</td>
<td>1000 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>563879</td>
<td>BV421 Mouse Anti-Human CD45</td>
<td>100 Tests</td>
<td>HI30</td>
</tr>
</tbody>
</table>

### 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


Briggs RC, Briggs JA, Ozer J, et al. The human myeloid cell nuclear differentiation antigen gene is one of at least two related interferon-inducible genes located on chromosome 1q that are expressed specifically in hematopoietic cells. Blood. 1994; 83(8):2153-62. (Biology)

