Technical Data Sheet

Alexa Fluor® 647 Mouse Anti-Human PVR (CD155)

Product Information

Material Number: 566305
Alternate Name: Poliovirus receptor; HVED; Nectin-like protein 5; NECL5; NECL-5; PVS; TAGE4
Size: 50 Tests
Vol. per Test: 5 µl
Clone: TX24 (also known as TX-24)
Immunogen: Human PVR Transfected Cell Line
Isotype: Mouse IgG2a
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The TX24 monoclonal antibody specifically binds to the Poliovirus Receptor (PVR) which is also known as CD155, Nectin-like protein 5 (NECL5). PVR is a ~70 kDa nectin-like type I transmembrane glycoprotein that belongs to the PVR-related (PRR) family within the Ig superfamily. In addition to two cell surface PVR isoforms (alpha and delta), two secreted PVR isoforms (beta and gamma) have been reported that share the same three Ig domains but differ in their C-termini. PVR is expressed on monocytes, macrophages, endothelial cells, epithelia cells, CD34+ thymocytes, and neurons. In addition to serving as a receptor for poliovirus and cytomegalovirus, PVR functions as an adhesion molecule involved in cell-cell and cell-matrix adhesion through interaction with CD96 (TACTILE), Nectin 1-3 (CD111, CD112, CD113), CD226, and vitronectin. PVR promotes natural killer (NK) cell adhesion to and lysis of target cells.

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

Flow cytometry Routinely Tested
Suggested Companion Products

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<thead>
<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>
<td>500 mL</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<tr>
<td>565357</td>
<td>Alexa Fluor® 647 Mouse IgG2a, κ Isotype Control</td>
<td>50 µg</td>
<td>G155-178</td>
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<tr>
<td>555899</td>
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<tr>
<td>349202</td>
<td>BD FACSTM Lysing Solution</td>
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</tr>
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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).
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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. 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.
6. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
7. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
8. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References